

git readme for conference

The CONFERENCE library was written to sustain the organisation of the Euromnis conference, an annual conference of Omnis developers. Omnis is a software development environment that has been used for some 40 years, evolving over that time to enable software programmers to create high quality business applications.

This application has a dependency on the “[infra](#)” library which is also available from git as an open source project.

You may also like to refer to the speakers and backOffice documents. These provide usage information but also refer to technical details.

Key classes

You need to be aware of some important, application specific classes that are sub classes from “infra” classes.

CONFERENCE class	subclassed from
oValuesApp	infra.oValues
oWebClientApp	infra.oWebClient
rtBusinessApp	infra.rtSuper
rjsDashboardApp	infra.rjsInfraDetail
rjsBusinessApp	infra.rjsInfraAccess
tkWorkerApp	infra.tkWorker

All classes in the application library (CONFERENCE in this case) should have their \$designtaskname st to rtBusinessApp. This is important to be able to see task variables in the IDE.

Startup_Task & initialisation

[sqlite libini](#). [db connections and environment variables](#)
[knows what the context is – fat client, web server, jsClient etc](#)

Database orientation

In order for a conference to be organised a conference record needs to be created. A conference will need a name, description, venue and dates to become a valid record.

Delegates will register using an online facility. A delegate is determined by creating a Person record with email address as a unique key. The delegate record links the Person to the Conference.

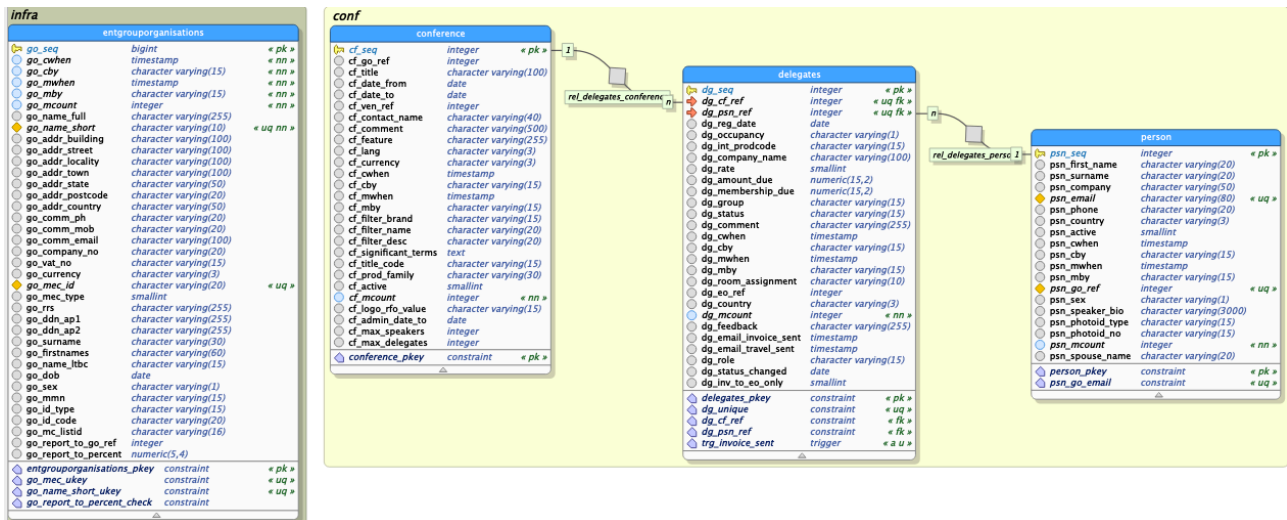
The Conference and its Delegates

The Delegate has three important management columns:

DG_STATUS	unpaid, part paid, paid in full, cancelled
DG_ROLE	delegate, speaker, vip
DG_OCCUPANCY	single, shared, spouse, family

Delegates and additional data

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This is a very Delegate centric application and the delegate is the focus of our attention. There are two sides to the delegate for us: that leading up to the start of the conference and the delegate's choices during the conference.

To manage the delegate leading to the conference means:

PAX

This record holds the precise requirements on the venue being required by this delegate – typically meals and accommodation. Most delegates attend the whole conference but some attend only a portion. Some attend the sessions and meals but do not stay overnight. This detail is captured in the PAX record. Although typically a 1-1 relationship between PAX and Delegate, the PAX record is a many to one to include spouses and other family members. One record for the Delegate, another record for a spouse.

DG_STATUS_LOG

We like to keep track of when things change with a Delegate such as when they pay, or part pay, or cancel. There may also be correspondence with the delegate such as a request for travel plans. All these events get recorded in the `dg_status_log`.

PAYMENTSIN

Usually a delegate will make a single payment for the conference but sometimes a delegate may make 2 or 3 payments to provide the total. Each payment is recorded so we can keep track of the progress.

TRAVELPLANS

Because we typically provide a shuttle of some sort, it is important to know delegate transport plans so we can optimise this service. Arrival times are the most critical but we also like to know departure arrangements to assist in the end of conference shuttle service.

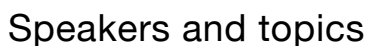
DELEGATEINVOICELINKS

Because a number of delegates can be registered in a single submission and there will be a single invoice generated that gets sent to the company, we have to keep track of which Delegates are covered by which invoice. This table is used to manage this. This table is essential when we receive a single payment for the total invoice and need to know who has been paid for.

DIETREQUESTS

A dietary request has to be honoured for anyone who is being catered for at the event. This extends beyond Delegates to possible spouses so the DietRequest record is linked to PAX record.

ERD segment: The tables related to the Delegate record for Conference organisation:

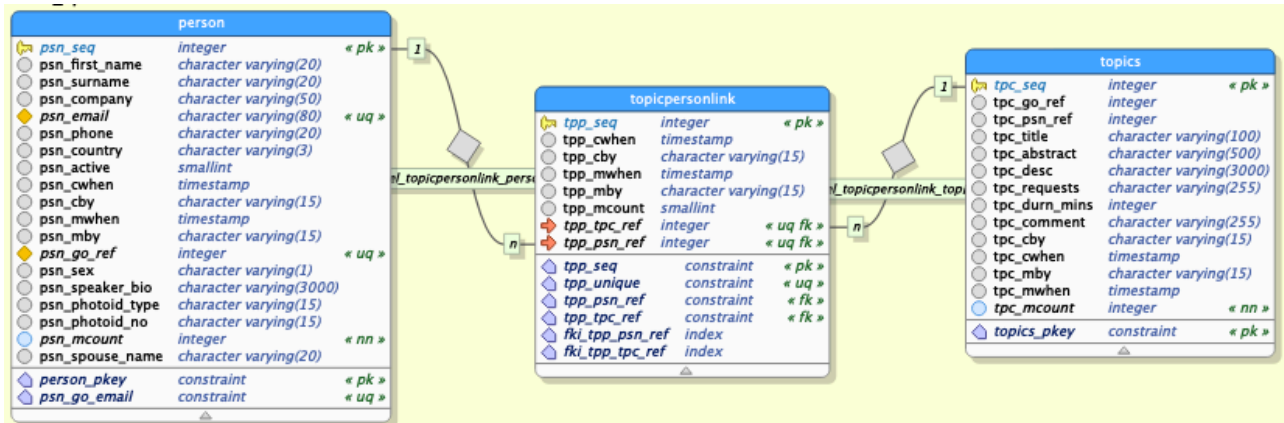


One gotcha we have faced is the same Topic being presented by two different people. e.g. Table Magic has been presented by both Rob Mostyn and Graham Stevens. Upon reflection it was probably easier to have the Table Magic topic duplicated - one for Rob and one for Graham however a purist approach was taken to implement a link table so the same Topic could be provided by different Speakers.

PERSONS

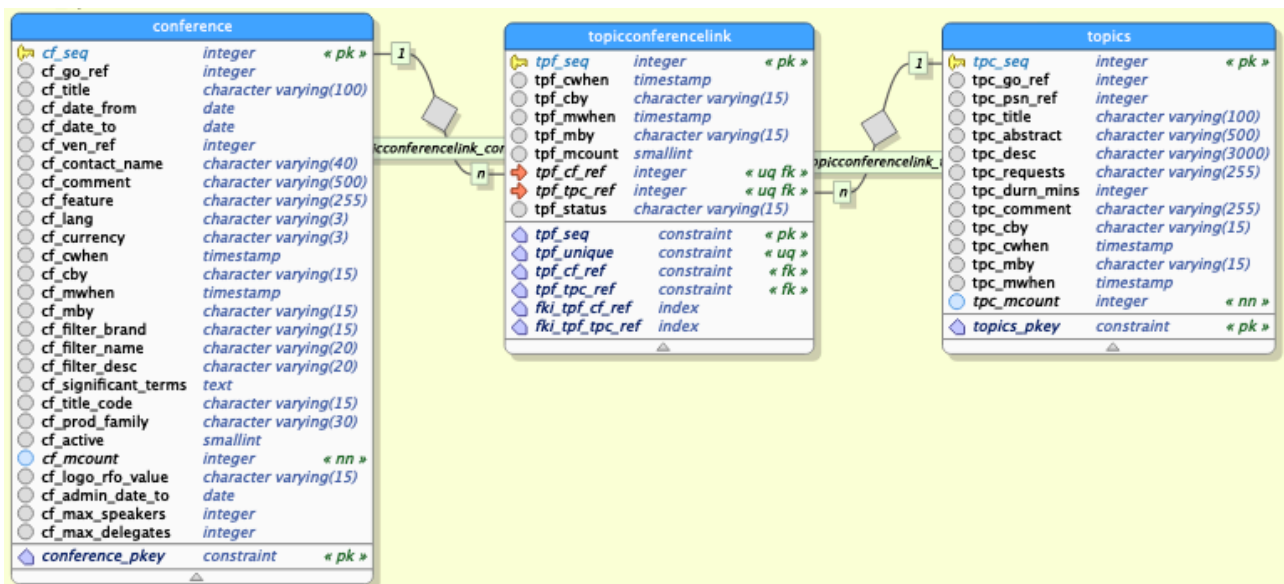
TOPICS

N.B. the column tpc_psn_ref is essentially redundant but not removed.



Topics for a conference and establishing sessions (arrangements)

To be able to state what Topics are available for the conference for promotional reasons we have to show which topics from the Speaker's repertoire are going to be presented at a particular conference. This is done with a link table.



The next step is to define the specific sessions at the conference. This is done by creating “arrangements”. An arrangement must refer to

- a conference
- a topic
- a room
- have a start time
- a duration

Rooms are defined as a “facility” associated to a particular Venue.

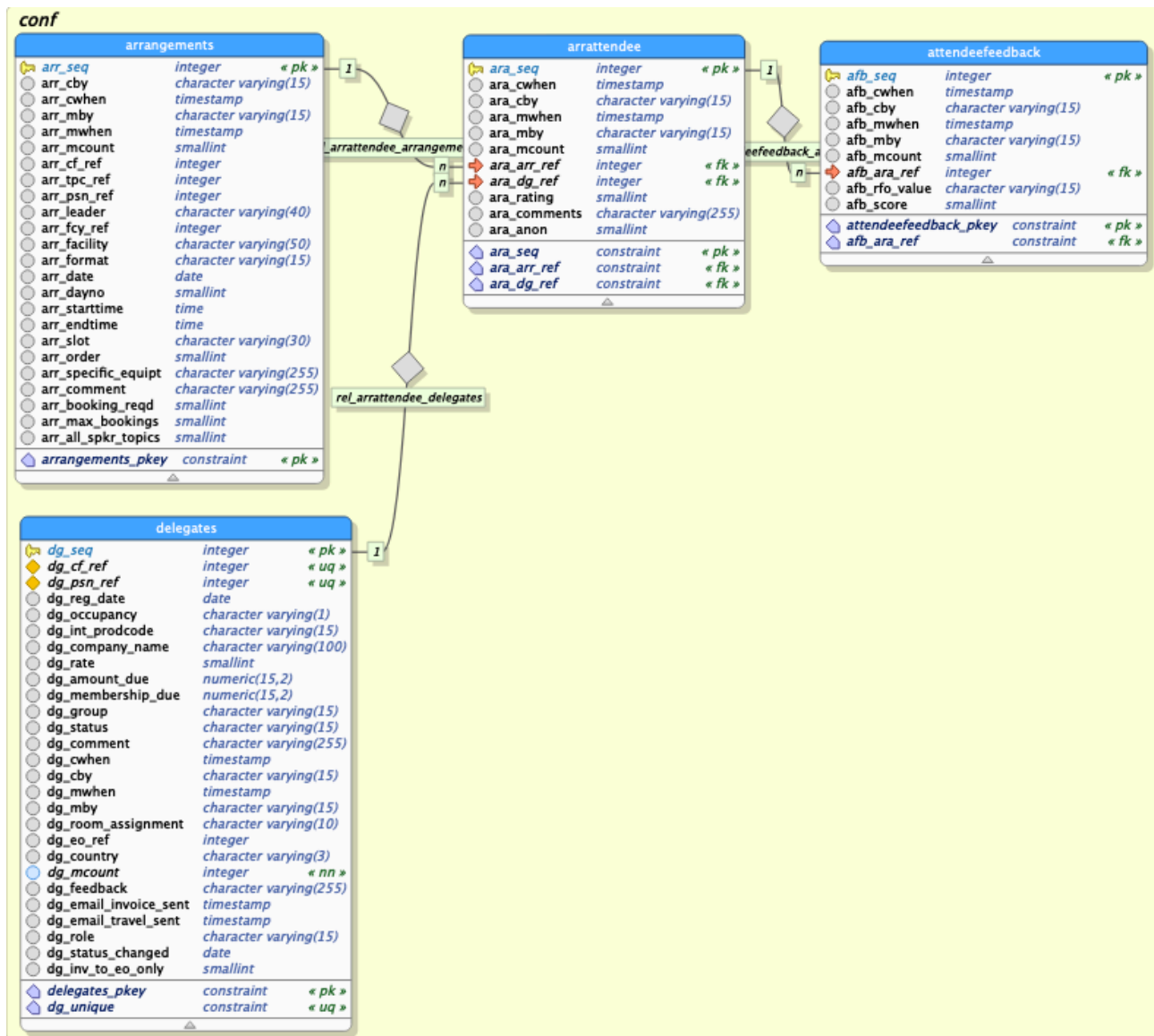
Some arrangements (or sessions) require delegates to book (e.g. a topic being presented) while others do not (e.g. the Gala Dinner).

To limit numbers, delegates have to book into sessions.

An important part of the application is to monitor which topics are well attended and which are not. This is used to measure relevance of topics and ensure we provide a quality conference. To facilitate this there is a booking system where Delegates can see what sessions are on each day and “book” into the session of their choice.

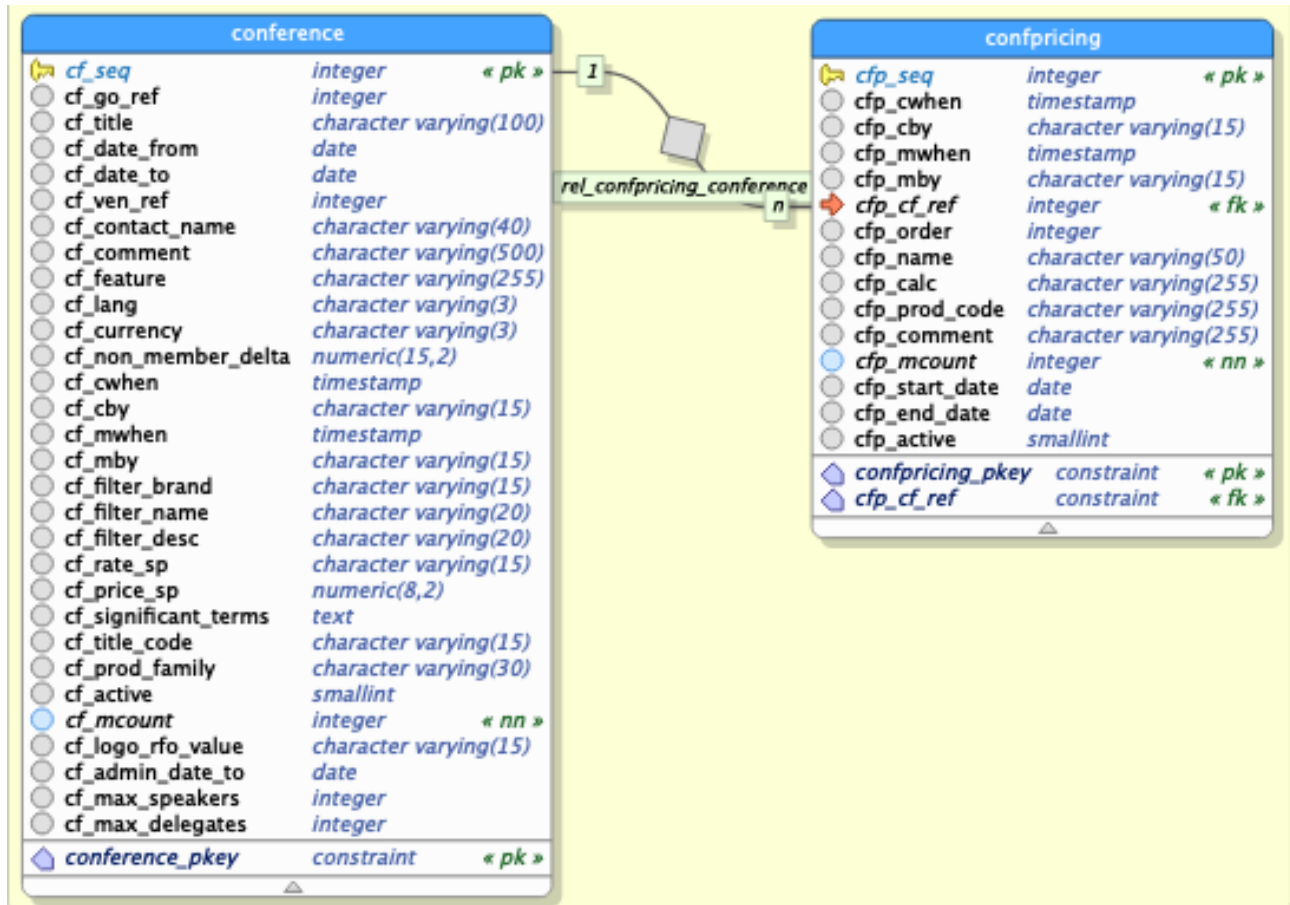
The application also supports delegates providing feedback to speakers about their presentation.

The table relationships are shown here:



Early bird pricing

The Euromnis conference has an incredibly attractive early bird pricing policy. Pricing changes as each calendar month progresses towards the start of the conference. This is controlled with the confpricing table that has a series of rules with an execution order. The cfp_calc is an Omnis expression that if satisfied will return a product code stored in cfp_prod_code.



User interface

The user interface can be organised into 5 sections four of which are “public” facing and small.

- conference registration
- travel information
- session attendance
- website integration (2 forms)

The fifth, Administration, is quite complex and runs as an application with many forms to interact with.

Registration

class: rjsConfRegistration

It is a 3 pane form. The first gathers registration preferences for each delegate. Prices for option are displayed. These prices change according to the early bird discount rules.

More than one delegate can be registered. The second pane shows the cost and asks for confirmation. The third pane is a thank you pane with payment details.

The screenshot shows a web form titled "GO_NAME_FULL1" with a header "Read-only: Remote Form CONFERENCE.rjsConfRegistration". The form is divided into several sections:

- Select event to register for:** A dropdown menu showing "ilConferences".
- email address:** A text field labeled "PSN_EMAIL" with buttons "+ person", "- person", and "lookup".
- first name:** A text field labeled "PSN_FIRST_NAME".
- surname:** A text field labeled "PSN_SURNAME".
- country:** A dropdown menu labeled "PSN_COUNTRY".
- Photo ID no.:** A text field labeled "PSN_PHOTOID_NO".
- Occupancy:** Radio buttons for "single", "speaker", "24hr", "shared", and "n.accom".
- Pricing:** A section showing "icPriceEarlyB", "IT_PRICE", "full price", "INIT_PRICE", "VAT", "irlyBirdTax", "PriceTotal", and "BirdTotal".
- Extras:** Radio buttons for "alone", "+ spouse", and "+family".
- Spouse name:** A text field labeled "PSN_SPOUSE".
- Primary delegate:** A checkbox labeled "Primary delegate".
- Dietary requirements:** A text field labeled "DR_REQUEST".
- No. days:** A text field labeled "NoDa".
- Which days:** A text field labeled "icWhichDays".
- Sex:** Radio buttons for "male" and "fe".
- Details of person or company paying:** A section with fields for "name", "EO_NAME", "lookup", "billing address", "EO_ADDR_BILL", "Company number", "EO_COMPANY_NC", "VAT no", "EO_VAT_NO", "country", "EO_CO_ISO3_REF", "contact name", "EO_CONTACT", "Company P.O. no.", "FOH_CUST_PO", and "email invoice to", "EO_EMAIL".
- icDisplayMessage:** A button labeled "icDisplayMessage".
- Buttons:** "cancel" and "register".

A blue box on the left side of the form contains the text: "This form is not compatible with this screen size. Please rotate your device or expand..."

What happens on a registration:

- a "person" record may be created – name and email address.
 - if they have already registered with the same email address, no change to "person" table.
- "delegate" record is created, linking person to conference.
- a "entextorganisations" record may be created – name, address and contact email.
 - if the company has paid for delegates in the past then their record will already be present.
- a pro forma invoice is created with infra.fininvouth (header) and infra.fininvoutd (detail).
- one or more "conf.delegateinvoicelinks" records are created (refer to "primary delegate" below).
- an email is sent to designated Omnisworld personnel to inform them of a registration – your alert that action is required.

Travel Plans

class: rjsTravelDetails

This form requires a login using the delegate number (DG_SEQ) and surname. The login is displayed in pane 1 and the data capture is on pane 2 (displayed).

Arrival information – to assist in venue preparation and shuttle coordination.

Dietary information and musicianship – Delegate can add dietary request for self and spouse.

Departure information – to assist in planning shuttle service from the venue

Read-only: Remote Form CONFERENCE.rjsTravelDetails

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icFormHeading
icFormIntro

irDelegate

Arrival info Dietary requirements, music **Departure info**

International arrival plans (entry into country):

where: TP_ARR_POINT

Carrier: TP_CARRIER Flight / train no: TP_FLIGHT_NO

Date: TP_ARR_DATE dayOfWe Time: TP_ARR_TIM

shuttle pick up: ☒ n/a

Mobile phone : PSN_PHONE

Local connection to conference

How will you connect to conference: TP_CONNECT_HOW

Local arrival point: TP_LOCAL_ARR_WHERE Local arrival time: TP_LOCAL_F

Spouse name : PX_NAME

destination information close save

icDisplayMessage2

Attendance

class: rjsSessionAttendance

This form requires a login using the delegate number (DG_SEQ) and surname.

When delegate arrives at conference this form is used to:

- view the schedule of sessions (arrangements)
- book for session at the conference
- provide general feedback to organisers
- provide session specific feedback to speakers

The ability to book for sessions has

- A number of rules to ensure equitable access to sessions.
- Only booking from 21:00 the night before for the next day.
- That you cannot book into a past session.
- That you can only provide feedback on a sessions you have attended.
- A speaker can view all feedback provided at his/her session.

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Read-only: Remote Form CONFERENCE.rjsSessionAttendance

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Simulated date & time
idDate [] idtTestTir []

Dates
ilDates
Sample List Data
Sample List Data
Sample List Data
Sample List Data
Sample List Data

Time slot
☒ all
☐ afternoon

irDelegate
Topic # When Presenter
ilArrangements

register **remove**

Surname First name
ilAttendees

session feedback

Session info
☒ abstract
☐ description
☐ speaker bio

TPC TITLE
icSessionInfo

icFormHeadina
icFormIntro

icBookedTotal

Where FCY_NAME
FCY_LOCATION

general feedback

close

icDisplayMessage2

Website integration

classes: rjsSpeakersForSite & rjsArrangementsForSite

The omnis world website has two forms that are used to expose conference details: speakers with topics, and the conference schedule of arrangements.

rjsSpeakersForSite

Read-only: Remote Form CONFERENCE.rjsSpeakersForWebsite

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GO_NAME_FULL1

Select conference ilConferences [v]

Speaker
ilSpeakers
Sample List Data
Sample List Data
Sample List Data
Sample List Data
Sample List Data

Speaker Biography
PSN_SPEAKER_BIO

Topic Title icSearch

ilTopics

Brief description
TPC_ABSTRACT

Full description
TPC_DESC

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rjsArrangementsForSite

Read-only: Remote Form CONFERENCE.rjsArrangementsForWebsite

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GO_NAME_FULL1

Select conference

Day 1 Day 2 Day 3 Day 4 Day 5

morning		afternoon		evening	
LAMc1		IPMc1		EVEc1	
AMspeaker1		PMspeaker1		Mtime1	
<input type="text" value="AMtitle1"/>		<input type="text" value="PMtitle1"/>		<input type="text" value="Mtime1"/>	
<input type="text" value="AMdesc1"/>		<input type="text" value="PMdesc1"/>		<input type="text" value="Mtime1"/>	
<input type="text" value="iDay1"/>					

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Administration

class: container class: rjsBusinessApp

Access to this facility requires a login using the uauers table – name and password.

Overview

Login

Dashboard of conference activity

Administration: Participation: Delegates, Speakers, Arrangements, Members, Reports
Events: Venues, Conference, Persons
Nuts and Bolts: [Products](#), [Customers](#), [Suppliers](#), [Invoicing](#)

Technical: Configuration: [Organisation](#), [Local and Global configurability](#)
User access: [Users](#), [Roles and Permissions](#)

Participation is all about getting the conference working – speakers to attract delegates and delegates who pay for the event.

The [functions highlighted in magenta](#) come with “infra” – generic business functions – and not CONFERENCE specific.

Super classes

infra.rsjnInfraRecords

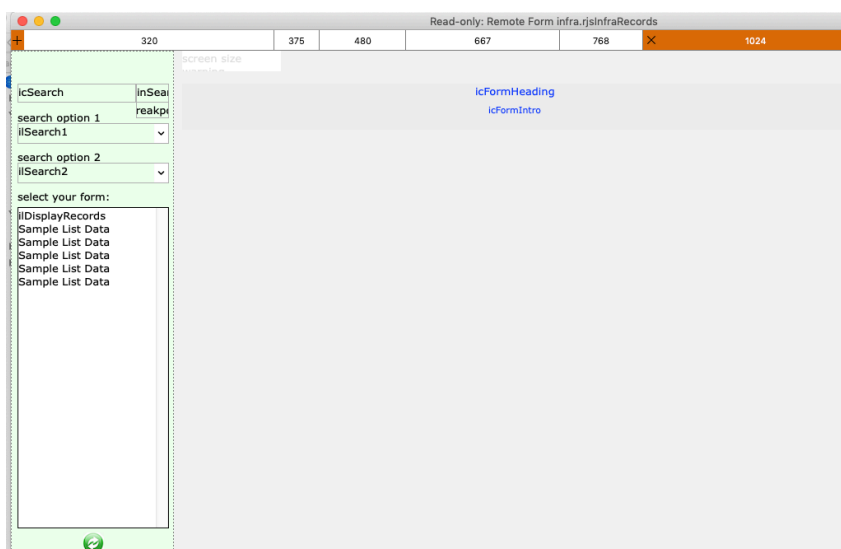
For forms that access a range of records e.g. a list of Delegates, Speaker or Venues.

Top left has a search facility. Next to it is a count of records in the list.

ilSearch1 is a drop down list of a subset to choose from e.g. a list of conferences to choose from.

ilSearch2 is a drop down list of further set criteria e.g. cancelled Delegates, registered this month.

The list down left side is the resulting set of records determined between the string search and drop down lists. From this list you select the record you are interested in.



Most of the administration forms are based on this class.

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infra.rsjnInfraBlank

For forms that are not part of an integrated application. By this we mean a form that does not have menus to navigate to other functions. e.g. the registration form: rjsConfRegistration is to register for the conference and that is all.

There is no need to provide an image – it is blank.

The Registration, Travel Plans, Website integration and Session Attendance forms are based on this super class.

Reports

Although we are a big fan of embedding the code within report classes to create themselves, we introduced an alternative form of code arrangement when users started to ask for “data from reports to be exported”. The components of the reporting architecture are:

conference.oReporting

infra.rjsReports

Each business application has its own oReporting object. This object has a certain structure that works as a “configuration” within the object. It is used to “configure” infra.rjsReports so that it displays all the reports the user has access to and a means of providing parameters to the report. It is a functional interface, not a pretty one.

The reason this arrangement was chosen is because to provide for export of data from reports, the user interface allows the user to choose whether they want a pdf report or the data. If they choose data then the data for the report is gathered and provided as tab delimited text on the report form, omitting the report class. Instead of the user downloading the file then importing it into Excel (or whatever), they simply select all the text in this field, copy it and paste it into the next process. It is much easier on users and on coding.

Errata

You may notice some table and remote form classes referring to “Certificate” and “Test”. You can ignore these. These are prototype classes for someone who was interested in creating an online certification system where someone would register for a course, do an online exam and be certified. The course would be a “conference”, registering for a course would create a “delegate” etc. It is an example of how adaptable the CONFERENCE library could be. The classes are incomplete and may not even work but they are there for reference.