

Kinetic Solutions

KxRegistration

2015.0 Release notes

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Version: 2015.0



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Outline

Document Content

Content outline

This document contains the primary changes and installation notes for release 2015.0 of KxRegistration.

This document is intended for reference against existing installations of KxRegistration (2014). Earlier changes can be found in previous release notes documents.

Confidentiality

This document strictly confidential and is intended solely for the use by the client organisation. No distribution or reproduction of this document is permitted without the written permission of Kinetic Solutions Limited.

Important information for migrating from KxRegistration 2014 to KxRegistration 2015

KxRegistration 2015 has been upgraded to utilise .NET 4.6.1. Prior to deployment, please ensure .NET 4.6.1 is installed on the webserver. This can be downloaded from the following URL: <https://www.microsoft.com/en-gb/download/details.aspx?id=49981>

*Please refer to the deployment notes at the end of this document, and note that the **App_Themes** folder should also be deleted.*



Outline

New feature/functionality highlights since 2014.0

15.0

- Event specific CC and BCC email addresses
- Grouping of Optional Packages
- Event cancellation policy
- Admin cancellation of attendee

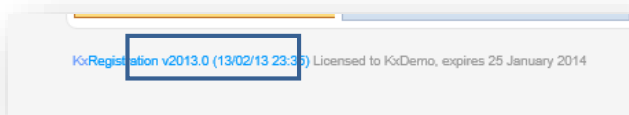
14.2

- Expansion of hashing algorithms for HTTP POST interfaces to support HMAC-SHA256

14.1

- Additional payment interface option to process payment via an iframe
- Configuration option to turn off in-line transfer of attendee details to Kx
- Added additional connection information to the About screen for debug/support assistance

For full list of new features view the version highlights link in the admin section:



Changes/improvements/fixes since 2014.0

2015.0

- Revised content editor layout
- Incorrect URL supplied in portal welcome email
- Extranet invite email formatting validation
- Export of confirmed attendees output numbers rather than names
- Cancelled attendees picked up as billing adjustments
- Creation of extranet operator failed due to missing columns
- Incorrect characters stored in audit records caused error message on dashboard screen.
- Resolved issue where Find Booking with incorrect booking data resulted in an error screen.
- Resolved fault where linking multiple questions to the same UDF resulted in the attendee appearing duplicated in Kx
- Splitting of credit note assignment from payments in invoice view

2014.2

- Billing adjustments where new invoice isn't raised when 0.00 balance previously
- CyberSource HTTP POST interface script added

2014.1

- Single entry of emails still validated as though double entry was enabled
- Resource quantity calculation logic incorrect
- Limit of quantity calculation for packages during booking process incorrect
- Paging removed results in unable to select packages in admin sections
- Admin editing of answers to questions do not save when original value is blank
- Duplicate payment posts for same invoice resulted in duplicated payments
- Cancel payment posts received after success post from payment processor
- Extranet emails are not sent when using TLS
- Quantity limited resource calculating incorrectly when assigned to multiple packages
- Some Unicode characters in emails being displayed as ?
- Unable to reorder attendee packages in admin screen
- Image URL's saved as absolute
- Row breaks fail when using grid view for optional packages



New features introduced in 2015.0

Event specific CC and BCC email addresses

Outline

Each event can have optional CC and BCC email addresses specified. Emails sent relating to this booking are CC'd and BCC'd to the specified email addresses in addition to the ones specified in the global configuration.

Details

Within the event configuration, a new option in the Email Templates section has been added to access additional email options.

The screenshot displays the 'Admin for KxRegistration' interface. The top navigation bar includes 'DASHBOARD', 'EVENTS', 'GLOBAL CONFIGURATION', and 'LOGOUT'. The breadcrumb trail is 'Dashboard > Current events > Maths event'. The main content area is titled 'Maths event' and shows the event dates (08 March 2018) and registration period (16 February 2013 to 07 March 2018). A sidebar on the left lists various event configuration steps, with 'Email templates' expanded to show 'Email address options'. The 'Email Options' section contains a text box explaining that event-specific CC and BCC email addresses can be entered, in addition to global ones, and that multiple addresses can be separated by a semi-colon (;). Below this are two input fields for 'CC Email Address' and 'BCC Email Address', and a 'Save changes' button.

Selecting this will access the input fields for the CC and BCC email addresses for this event. Each email should be a valid email format. Multiple addresses can be specified by utilising the semi-colon (;) delimiter between each email address.

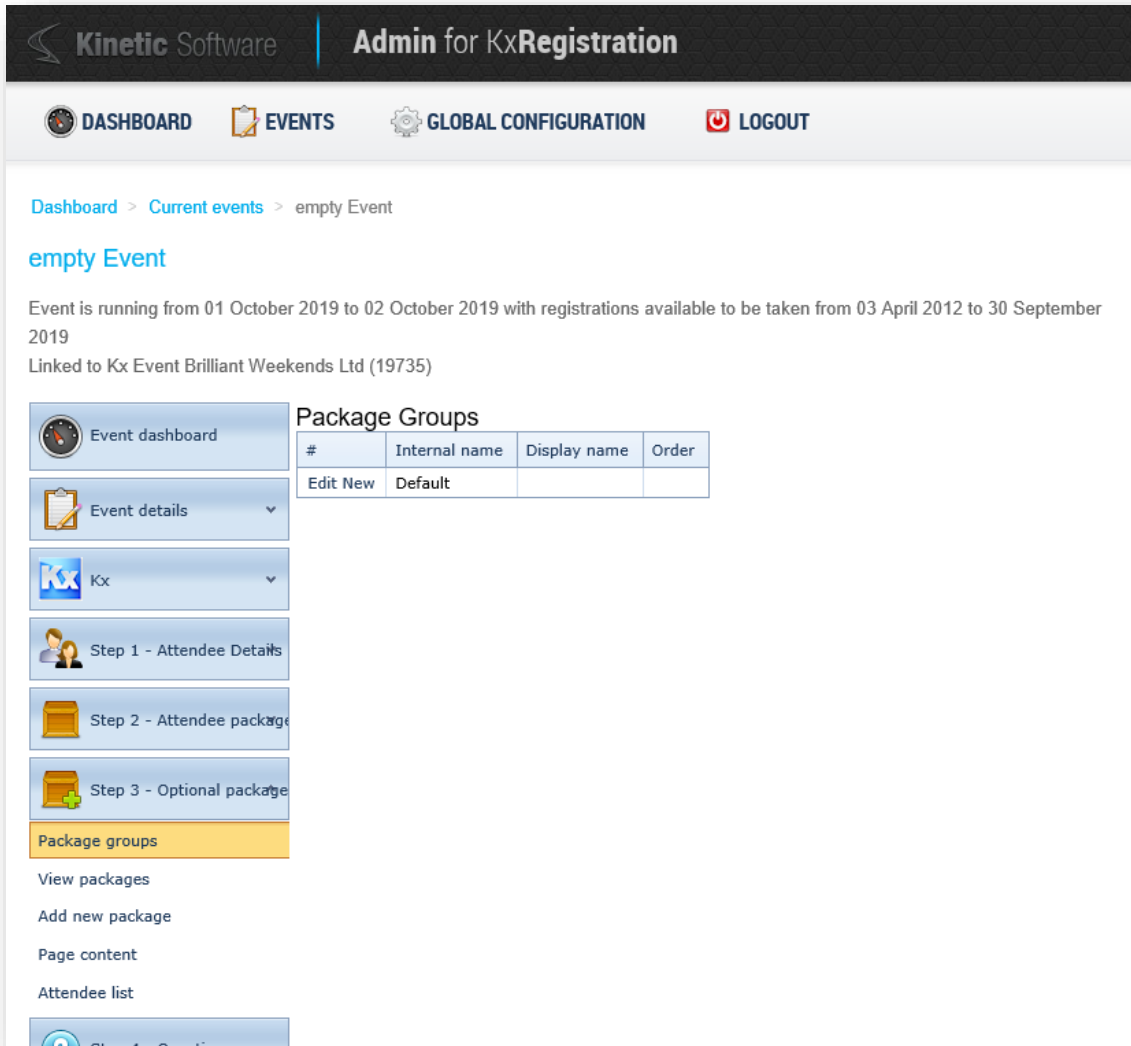
Grouping of Optional Packages

Outline

Optional packages can be grouped to provide a clearer layout of options for a booker where a large number of groups are specified.

Details


Package groups are configured within a new option within the Optional Packages section of an event:



Selecting this will display a grid of existing groups within an event. Each event will have a "Default" group in which all non-grouped packages will be placed.

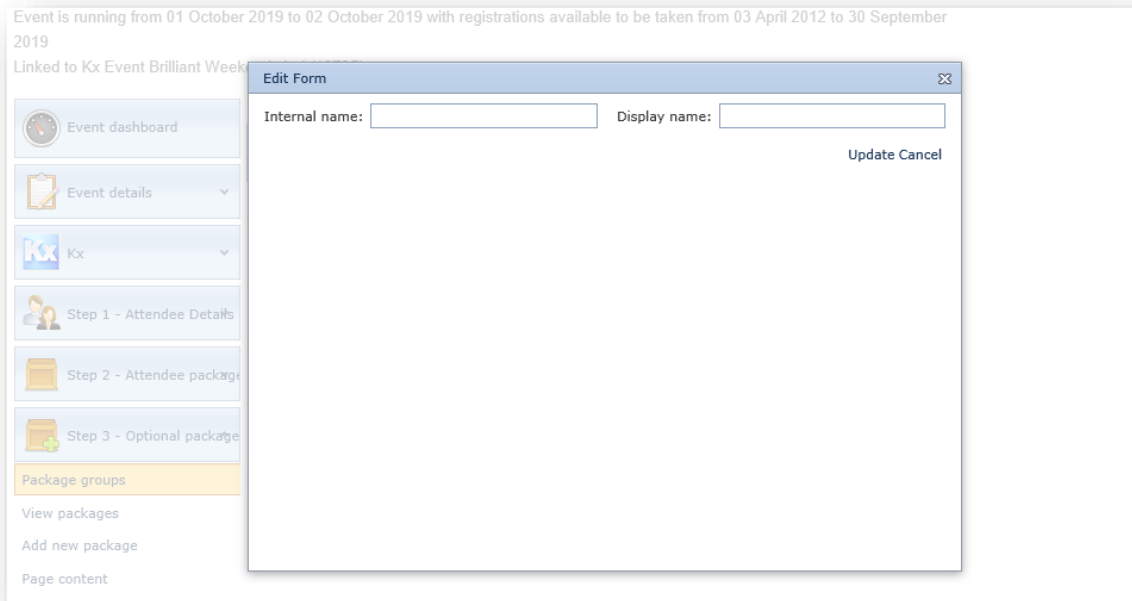
Adding / Editing groups

Adding a new group, select the New option from the grid:



#	Internal name	Display name	Order
New	default		

This will display an input area where the Internal and Display names for the group can be edited.



Event is running from 01 October 2019 to 02 October 2019 with registrations available to be taken from 03 April 2012 to 30 September 2019
Linked to Kx Event Brilliant Week

Event dashboard
Event details
Kx
Step 1 - Attendee Details
Step 2 - Attendee package
Step 3 - Optional package
Package groups
View packages
Add new package
Page content

Internal name: Display name:
Update Cancel

As per other areas of KxRegistration, the Display Name is what the Booker will see within their process and the Internal Name is what is shown within the admin sections.

Enter the desired values and click the Update link to save the changes.

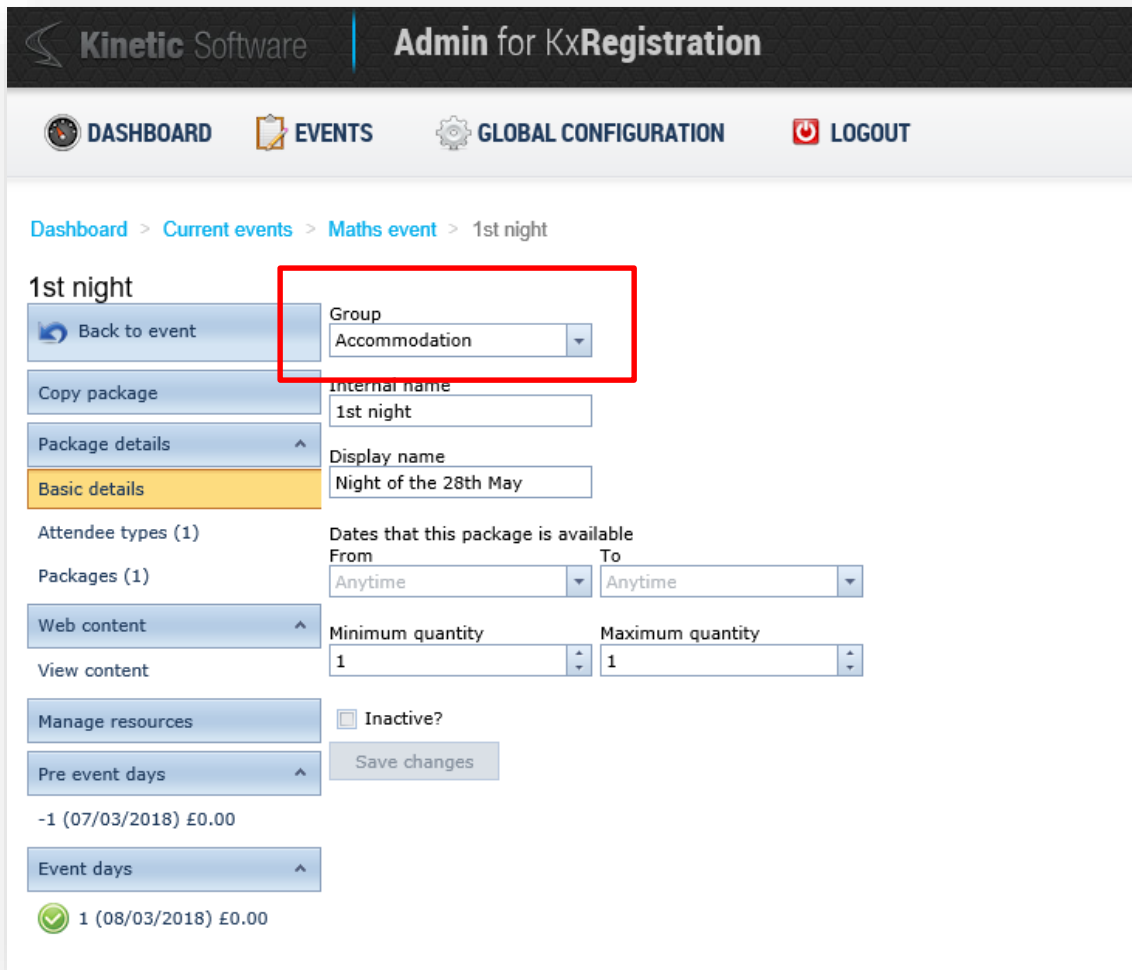
Groups which are not the default group can be re-ordered similar to the re-ordering of the packages.

The screenshot shows the 'Admin for KxRegistration' interface. At the top, there are navigation tabs: DASHBOARD, EVENTS, GLOBAL CONFIGURATION, and LOGOUT. Below this, a breadcrumb trail reads 'Dashboard > Current events > Maths event'. The main heading is 'Maths event', followed by event dates and a link to the Kx Event (12234). A sidebar on the left contains various menu items like 'Event dashboard', 'Event details', 'Kx', and 'Step 1 - Attendee Details'. The main content area features a 'Package Groups' table with columns for '#', 'Internal name', 'Display name', and 'Order'. The 'Order' column is highlighted with a red box, showing up and down arrows for re-ordering. The table lists several package groups: Single Rooms, Double Rooms, Shopping, Accommodation, Other, Catering, and Default.

#	Internal name	Display name	Order
Edit New	Single Rooms	Single Rooms	▲ ▼
Edit New	Double Rooms	Double Rooms	▲ ▼
Edit New	Shopping	Shopping	▲ ▼
Edit New	Accommodation	Accommodation	▲ ▼
Edit New	Other	Other	▲ ▼
Edit New	Catering	Catering	▲ ▼
Edit New	Default		

Adding packages to groups

In order to add a package to a group, edit the desired package and within the Basic Details section of the optional package select the group from the dropdown:



Within the listing of the optional packages, the group in which the package appears is displayed in the first column:

	Group	Internal name	Display name	Available		Inactive?	Price	Min Qty	Max Qty	Qty Avail.	Order
				From	To						
Accommodation	2nd night	Night of the 29th May				<input type="checkbox"/>	£0.00	1	1	∞	▲▼
Catering	Gala Dinner @ IOD	Gala Dinner @ IOD				<input type="checkbox"/>	£0.00	1	3	∞	▲▼
Catering	Pre-conference BBQ	Pre-conference BBQ				<input type="checkbox"/>	£35.00	1	50	5	▲▼
Accommodation	1st night	Night of the 28th May				<input type="checkbox"/>	£0.00	1	1	∞	▲▼
Shopping	B&B Rate 28th May 2013	B&B Rate 28th May 2013				<input type="checkbox"/>	£290.00	1	1	∞	▲▼
Default	Quantity Test	Quantity Test				<input type="checkbox"/>	£0.00	2	3	∞	▲▼

How groups affect the package ordering

The ordering of packages is still performed “globally” across all packages, however the order is implemented within the group when it is displayed.

Groups within the booking process

When Optional Packages have been placed into a group, the groups are displayed within the booking process as follows:

The screenshot shows a booking interface with a sidebar on the left containing links for 'The venue' and 'Maps and directions'. The main content area is divided into three sections: SHOPPING, ACCOMMODATION, and CATERING. Each section contains one or more package cards with checkboxes or dropdown menus for selection.

- SHOPPING**: Contains one card for 'B&B Rate 28th May 2013' priced at £290.00. The package includes 'Accommodation (single occupancy)' and 'Breakfast'.
- ACCOMMODATION**: Contains two cards. The first is 'Night of the 29th May' and the second is 'Night of the 28th May'. Both include 'Accommodation (single occupancy)' and 'Breakfast'.
- CATERING**: Contains three cards. Two are 'Gala Dinner @ IOD' and 'Pre-conference BBQ £35.00', both with a quantity dropdown set to 0. The third is 'Quantity Test' with a quantity dropdown set to 0.

The package layout configuration is still available and affects all groups as follows:

LINKS:

- The venue
- Maps and directions

Choose optional packages for **Mr Group Package**

SHOPPING

B&B Rate 28th May 2013 £290.00
PACKAGE INCLUDES
Accommodation (single occupancy)
Breakfast

ACCOMMODATION

Night of the 29th May
PACKAGE INCLUDES
Accommodation (single occupancy)
Breakfast

Night of the 28th May
PACKAGE INCLUDES
Accommodation (single occupancy)
Breakfast

CATERING

Gala Dinner @ IOD

Pre-conference BBQ £35.00

Quantity Test

< Previous Next >

Event cancellation policy

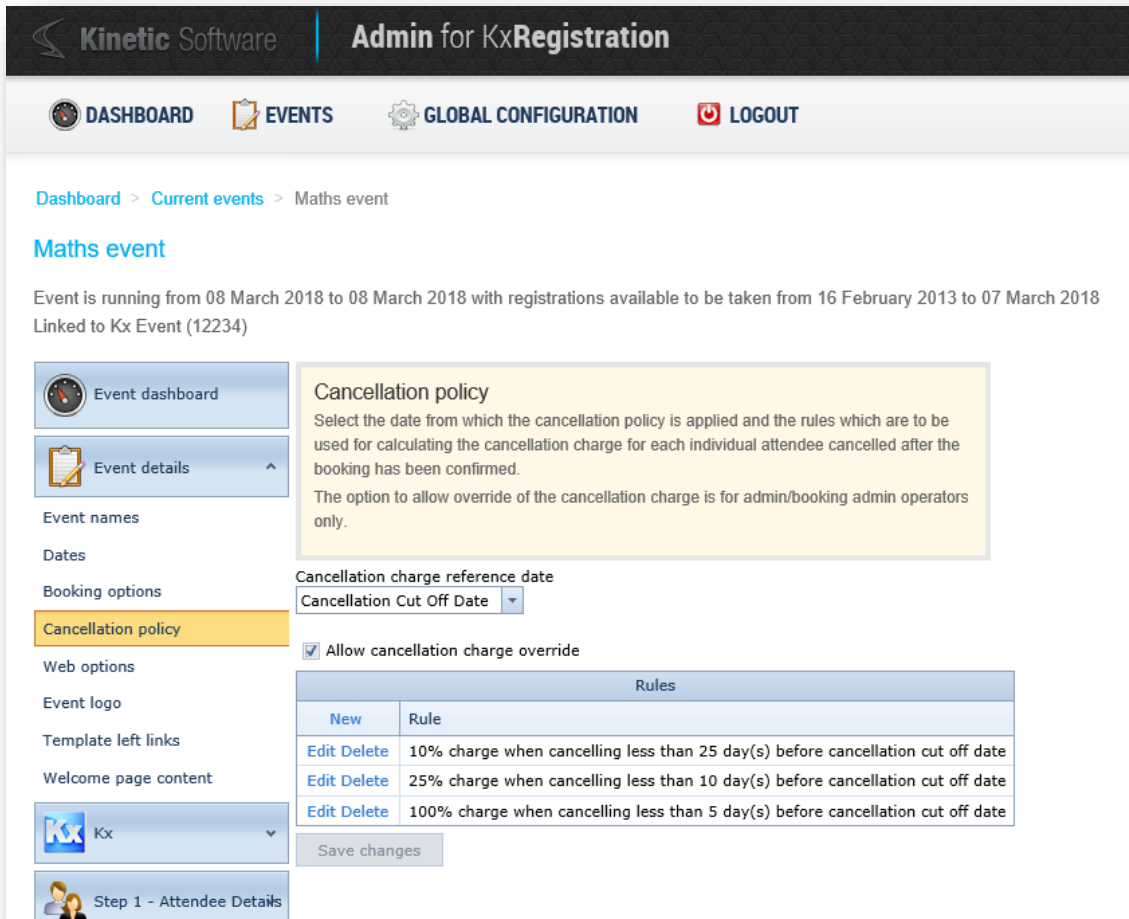
Outline

Previously, when a booking is cancelled, the invoice/charges are reversed entirely, providing a full credit against the booking which can be refunded. This did not allow for cancellation charges to be applied to an event where late cancellations result in penalty charges for a booker.

Each event can now specify a cancellation policy which are applied to a booking/attendee cancellation.

Details

A new option has been added to the Event Details section of the event configuration allowing for configuration of the cancellation policy for the event:



The policy has the following options available:

Cancellation reference date

The date which is used to calculate the cancellation charge can be based upon the Event Start Date or the Cancellation Cut Off Date depending upon the rules required for the event. This is selected from the dropdown indicated:

Cancellation policy
 Select the date from which the cancellation policy is applied and the rules which are to be used for calculating the cancellation charge for each individual attendee cancelled after the booking has been confirmed.
 The option to allow override of the cancellation charge is for admin/booking admin operators only.

Cancellation charge reference date
Cancellation Cut Off Date ▾

Allow cancellation charge override

Rules	
New	Rule
Edit Delete	10% charge when cancelling less than 25 day(s) before cancellation cut off date
Edit Delete	25% charge when cancelling less than 10 day(s) before cancellation cut off date
Edit Delete	100% charge when cancelling less than 5 day(s) before cancellation cut off date

Cancellation charge override

When an admin operator cancels a booking, with this option enabled, an alternate policy rule can be selecting, altering the cancellation charge which is applied to the booking. This is to allow an element of flexibility for the admin operator.

At no point does this affect the cancellation rule applied when the booker performs the cancellation.

This is enabled when the indicated tick-box is checked:

Cancellation policy
 Select the date from which the cancellation policy is applied and the rules which are to be used for calculating the cancellation charge for each individual attendee cancelled after the booking has been confirmed.
 The option to allow override of the cancellation charge is for admin/booking admin operators only.

Cancellation charge reference date
Cancellation Cut Off Date ▾

Allow cancellation charge override

Rules	
New	Rule
Edit Delete	10% charge when cancelling less than 25 day(s) before cancellation cut off date
Edit Delete	25% charge when cancelling less than 10 day(s) before cancellation cut off date
Edit Delete	100% charge when cancelling less than 5 day(s) before cancellation cut off date

Policy rule configuration

By default, there are no cancellation policy rules, which will result in the existing functionality being maintained (i.e. 100% credit upon cancellation).

Rules can be defined to apply a charge to a booking based upon the amount of time prior to the cancellation reference date. These rules can have the following attributes:

- Percentage charge
- Fixed value charge
- Number of days prior to cancellation reference date.

To add a new rule, select the New link from the grid:

Cancellation policy

Select the date from which the cancellation policy is applied and the rules which are to be used for calculating the cancellation charge for each individual attendee cancelled after the booking has been confirmed.

The option to allow override of the cancellation charge is for admin/booking admin operators only.

Cancellation charge reference date
Event Start Date

Allow cancellation charge override

Rules	
New	Rule

No rules defined, no cancellation charge will be created

Save changes

Selecting this will display an input screen where the values for the rule can be entered, clicking the Update link to save the changes:

Cancellation policy

Select the date from which the cancellation policy is applied and the rules which are to be used for calculating the cancellation charge for each individual attendee cancelled after the booking has been confirmed.

The option to allow override of the cancellation charge is for admin/booking admin operators only.

Cancellation charge reference date
Cancellation Cut Off Date

Allow cancellation charge override

Rules	
New	Rule
Invoice text:*	<input type="text"/>
Display Name:*	<input type="text"/>
Days before:*	<input type="text"/>
Type:*	<input type="text"/> Amount:* <input type="text"/>
Tax type:*	<input type="text"/> Tax model:* <input type="text"/>
<input style="border: 2px solid red;" type="button" value="Update"/> <input type="button" value="Cancel"/>	

All fields require a value and are detailed as follows:

Field Details

<i>Invoice text</i>	The text which is placed upon the invoice/credit which incurs the cancellation charge
<i>Display name</i>	The text displayed to the booker during the cancellation process to indicate the cancellation rule being applied (see later in this section)
<i>Days before</i>	The number of days prior to the cancellation reference date which this rule is applied. N.B. It is not possible to have 2 rules related to the same number of days prior to the reference date.
<i>Type</i>	The type of amount being used to calculate the charge, this can be either Percentage or Value
<i>Amount</i>	The amount (based upon the type) which is to be charged. E.g. if type is Percentage then 10 will be 10%, if value then 10.00.
<i>Tax type</i>	Defines if the charge being applied is a Nett or Gross charge when calculating the Tax.
<i>Tax model</i>	The Tax model (from Kx) to be used to calculate the Tax relating to the cancellation charge.

When a rule has been added, a text representation of the rule is displayed. Multiple rules are displayed in number of day-descending order:

Cancellation policy

Select the date from which the cancellation policy is applied and the rules which are to be used for calculating the cancellation charge for each individual attendee cancelled after the booking has been confirmed.

The option to allow override of the cancellation charge is for admin/booking admin operators only.

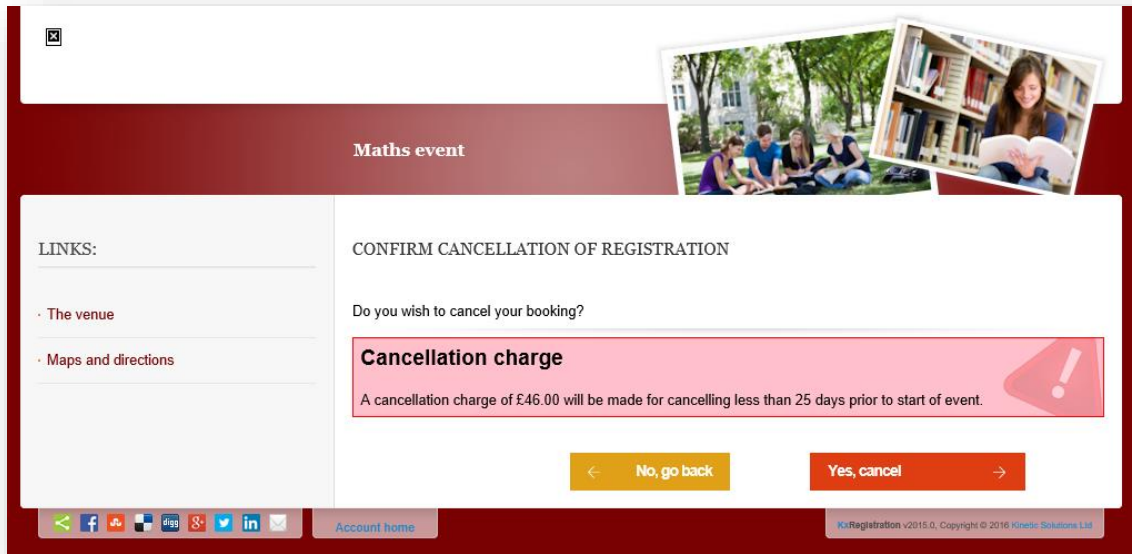
Cancellation charge reference date
Cancellation Cut Off Date

Allow cancellation charge override

Rules	
New	Rule
Edit Delete	10% charge when cancelling less than 25 day(s) before cancellation cut off date
Edit Delete	25% charge when cancelling less than 10 day(s) before cancellation cut off date
Edit Delete	100% charge when cancelling less than 5 day(s) before cancellation cut off date

Cancellation of booking by the booker

When a booker cancels the booking, the rule to be applied is calculated based upon the date of cancellation and value of the booking, and this is displayed as a warning to the booker to make them aware of the charge being applied:



When the booking is cancelled, the credit invoice is created, with the necessary charge applied to it:

Registration #: 7708

[Print summary](#)

REGISTRATION CANCELLED

Mr Cancel Booking

Email address **a@a.com**
 Address 1 **Test**
 Address 2
 Town **Test**
 County **Test**
 Postcode/Zip code **Test**
 Telephone
 Company Name

Available options

[Add another registration](#) →

Attendees

Mr Cancel Booking **£459.99**

Total **£46.00**

Transactions

41028 Total: £459.99 | Paid: £459.99 | Due: £0.00

Charges

Item	Nett	Tax	Total
Mr Cancel Booking 2 day non-residential	£141.66	£28.33	£169.99
Mr Cancel Booking B&B Rate 28th May 2013	£241.67	£48.33	£290.00
Total	£383.33	£76.66	£459.99

Payments

03/05/2016 Credit invoice 41029 (Credit) £459.99

41029 Total: -£413.99 | Paid: -£459.99 | Due: £46.00


Charges

Item	Nett	Tax	Total
Mr Cancel Booking 2 day non-residential	-£141.66	-£28.33	-£169.99
Mr Cancel Booking B&B Rate 28th May 2013	£241.67	£48.33	£290.00
10% charge for less than 25 days notice	£38.33	£7.67	£46.00
Total	-£345.00	-£68.99	-£413.99

Payments

03/05/2016 Credit for invoice 41028 (Credit) -£459.99

When a booking does not have a payment, the cancellation charge remains on the final credit invoice, with the original invoice being "paid" by the credit note. This leaves the final credit invoice requiring a payment.
 When a booking has been paid, the cancellation charge is still applied to the final credit invoice, however the value of the cancellation charge is passed to the original invoice, which will reduce the amount of refund that will be required for a booking:

 [Print summary](#)

REGISTRATION CANCELLED

Mr Cancel Paid

Email address: a@a.com
 Address 1: Test
 Address 2:
 Town: Test
 County: Test
 Postcode/Zip code: Test
 Telephone:
 Company Name:

Available options

Add another registration →

Attendees

+ Mr Cancel Paid	£169.99
--	---------

Total £17.00

Transactions

- 41030 Total: £169.99 | Paid: £322.98 | Due: -£152.99

Charges

Item	Nett	Tax	Total
Mr Cancel Paid 2 day non-residential	£141.66	£28.33	£169.99
Total	£141.66	£28.33	£169.99

Payments

03/05/2016 24576 (Authorize.net)	£169.99
03/05/2016 Credit invoice 41031 (Credit)	£169.99
03/05/2016 Credit invoice 41031 (Credit)	-£17.00

- 41031 Total: -£152.99 | Paid: -£152.99 | Due: £0.00

Charges

Item	Nett	Tax	Total
Mr Cancel Paid 2 day non-residential	-£141.66	-£28.33	-£169.99
10% charge for less than 25 days notice	£14.17	£2.83	£17.00
Total	-£127.49	-£25.50	-£152.99

Payments

03/05/2016 Credit for invoice 41030 (Credit)	-£169.99
03/05/2016 Credit for invoice 41030 (Credit)	£17.00

Account home
KxRegistration v2015.0, Copyright © 2016 Kinetic Solutions Ltd

This allows the refund process in the admin section to be simplified, and is clearer to the booker what refunds/charges are due.

Cancellation of Attendee by the booker

When a booking has multiple attendees, there is the option to cancel an individual attendee. The cancellation charge is calculated for that individual and displayed to the booker during the cancellation process:

Maths event

Cancel attendee?

Mr Attendee 2 £169.99

Details	
Address 1	Test
Address 2	
Town	Test
County	Test
Postcode/Zip code	Test
Telephone	
Email Address	a@a.com
Name as to appear on the badge	
Mobile Phone	
Department	
Company Name	
Field 5	

Packages	
2 day non-residential	£169.99
	£169.99

Questions	
Additional dietary comments	<No answer>
Any additional info	<No answer>
Dietary preference	<No answer>
TEST	
Some date	<No answer>

Cancellation charge

A cancellation charge of £17.00 will be made for cancelling less than 25 days prior to start of event.

[← No, return to booking](#) [Yes, cancel attendee →](#)

Account home KxRegistration v2015.0, Copyright © 2016 Kinetic Solutions Ltd

When the attendee is cancelled, the credit invoice is raised for the attendee and the charge is applied to the cancellation invoice:

Mr Attendee 1

Email address **a@a.com**
 Address 1 **Test**
 Address 2
 Town **Test**
 County **Test**
 Postcode/Zip code **Test**
 Telephone
 Company Name

Available options

[Add another registration](#) →

[Pay balance online now](#) →

[Cancel registration](#) →

Attendees

+ Mr Attendee 1	CANCEL → SUBSTITUTE →	£169.99
+ Mr Attendee 2		£169.99

Total
£186.99

Transactions

41032 Total: £339.98 | Paid: £169.99 | Due: £169.99

Charges

Item	Nett	Tax	Total
Mr Attendee 1 2 day non-residential	£141.66	£28.33	£169.99
Mr Attendee 2 2 day non-residential	£141.66	£28.33	£169.99
Total	£283.32	£56.66	£339.98

Payments

03/05/2016 Credit invoice 41033 (Credit)	£169.99
--	---------

41033 Total: -£152.99 | Paid: -£169.99 | Due: £17.00

Charges

Item	Nett	Tax	Total
Mr Attendee 2 2 day non-residential	-£141.66	-£28.33	-£169.99
Mr Attendee 2 10% charge for less than 25 days notice	£14.17	£2.83	£17.00
Total	-£127.49	-£25.50	-£152.99

Payments

03/05/2016 Credit for invoice 41032 (Credit)	-£169.99
--	----------

You have completed your booking.

The logic around when the cancellation charge is “transferred” to the original invoice is replicated as per the booking cancellation above.

Cancellation charges linked to attendees

When cancelling a specific attendee, that attendee is associated to the cancellation charge, however when cancellation of the booking, there is only one cancellation charge raised for the whole booking and so there is no attendee name attributed to the cancellation charge.

Paying/refunding with cancellation charges

Where a booking has been cancelled, the refund/payment is still applied by the admin operator in the invoices section for the booking:

Booking details for booking # 7708 - Mr Cancel Booking (Cancelled)

[Back to event](#)

[Summary](#)

[Edit details](#)

[Booker details](#)

[Invoice details](#)

[Attendees](#)

[Items](#)

[Invoices/Credit notes](#)

[Payment audit](#)

[Available tasks](#)

[Resend booking cancellation ema](#)

Invoices & credit notes

Below are listed the invoices and credit notes which have been logged against the booking.

#	Total Nett	Total Tax	Total	Paid	Due	Payment	View
41028	£383.33	£76.66	£459.99	£459.99	£0.00		

Invoice lines			
Delegate	Package	Tax	Total
Mr Cancel Booking	2 day non-residential	£28.33	£169.99
Mr Cancel Booking	B&B Rate 28th May 2013	£48.33	£290.00

Payments			
Date	Ref	Via	Amount
03/05/2016 09:39:23	Credit invoice 41029	Credit	£459.99

41029	-£345.00	-£68.99	-£413.99	-£459.99	£46.00	Add payment	
-------	----------	---------	----------	----------	--------	-------------	--

Invoice lines			
Delegate	Package	Tax	Total
Mr Cancel Booking	2 day non-residential	-£28.33	-£169.99
Mr Cancel Booking	B&B Rate 28th May 2013	-£48.33	-£290.00
	10% charge for less than 25 days notice	£7.67	£46.00

Payments			
Date	Ref	Via	Amount
03/05/2016 09:39:23	Credit for invoice 41028	Credit	-£459.99

	£38.33	£7.67	£46.00	£0.00	£46.00		
--	---------------	--------------	---------------	--------------	---------------	--	--

Figure 1 : Cancelled booking, no payment

Booking details for booking # 7709 - Mr Cancel Paid (Cancelled)

[Back to event](#)

Summary

Edit details ^

Booker details

Attendees

Items ^

Invoices/Credit notes

Payment audit

Available tasks ^

Resend booking cancellation ema

Invoices & credit notes

Below are listed the invoices and credit notes which have been logged against the booking.

#	Total Nett	Total Tax	Total	Paid	Due	Payment	View
41030	£141.66	£28.33	£169.99	£322.98	-£152.99	Add refund	

Invoice lines

Delegate	Package	Tax	Total
Mr Cancel Paid	2 day non-residential	£28.33	£169.99

Payments

Date	Ref	Via	Amount
03/05/2016 09:44:13	24576	Authorize.net	£169.99
03/05/2016 09:44:23	Credit invoice 41031	Credit	£169.99
03/05/2016 09:44:23	Credit invoice 41031	Credit	-£17.00

41031	-£127.49	-£25.50	-£152.99	-£152.99	£0.00		
-------	----------	---------	----------	----------	-------	--	--

Invoice lines

Delegate	Package	Tax	Total
Mr Cancel Paid	2 day non-residential	-£28.33	-£169.99
	10% charge for less than 25 days notice	£2.83	£17.00

Payments

Date	Ref	Via	Amount
03/05/2016 09:44:23	Credit for invoice 41030	Credit	-£169.99
03/05/2016 09:44:23	Credit for invoice 41030	Credit	£17.00

	£14.17	£2.83	£17.00	£169.99	-£152.99		
--	---------------	--------------	---------------	----------------	-----------------	--	--

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Figure 2 : Cancelled booking, with payment

Booking details for booking # 7710 - Mr Attendee 1 (Confirmed)

[Back to event](#)

Summary

Edit details ^

Booker details

Invoice details

Attendees

Items ^

Invoices/Credit notes

Payment audit

Available tasks ^

Resend booking confirmed email

Cancel this booking

Invoices & credit notes

Below are listed the invoices and credit notes which have been logged against the booking.

#	Total Nett	Total Tax	Total	Paid	Due	Payment	View
41032	£283.32	£56.66	£339.98	£169.99	£169.99	Add payment	

Invoice lines				Payments			
Delegate	Package	Tax	Total	Date	Ref	Via	Amount
Mr Attendee 1	2 day non-residential	£28.33	£169.99	03/05/2016 09:49:57	Credit invoice 41033	Credit	£169.99
Mr Attendee 2	2 day non-residential	£28.33	£169.99				

41033	-£127.49	-£25.50	-£152.99	-£169.99	£17.00	Add payment	
-------	----------	---------	----------	----------	--------	-------------	--

Invoice lines

Delegate	Package	Tax	Total
Mr Attendee 2	2 day non-residential	-£28.33	-£169.99
Mr Attendee 2	10% charge for less than 25 days notice	£2.83	£17.00

Payments

Date	Ref	Via	Amount
03/05/2016 09:49:57	Credit for invoice 41032	Credit	-£169.99

	£155.83	£31.16	£186.99	£0.00	£186.99		
--	----------------	---------------	----------------	--------------	----------------	--	--

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Figure 3 : Cancelled attendee, no payment

Booking details for booking # 7711 - Mr Attendee 1 (Confirmed)

[Back to event](#)

[Summary](#)

[Edit details](#)

[Booker details](#)

[Attendees](#)

[Items](#)

[Invoices/Credit notes](#)

[Payment audit](#)

[Available tasks](#)

[Resend booking confirmed email](#)

[Cancel this booking](#)

Invoices & credit notes

Below are listed the invoices and credit notes which have been logged against the booking.

#	Total Nett	Total Tax	Total	Paid	Due	Payment	View
41034	£283.32	£56.66	£339.98	£492.97	-£152.99	Add refund	

Invoice lines

Delegate	Package	Tax	Total
Mr Attendee 1	2 day non-residential	£28.33	£169.99
Mr Attendee 2	2 day non-residential	£28.33	£169.99

Payments

Date	Ref	Via	Amount
03/05/2016 10:04:11	1968	Authorize.net	£339.98
03/05/2016 10:04:22	Credit invoice 41035	Credit	£169.99
03/05/2016 10:04:22	Credit invoice 41035	Credit	-£17.00

#	Total Nett	Total Tax	Total	Paid	Due	Payment	View
41035	-£127.49	-£25.50	-£152.99	-£152.99	£0.00		

Invoice lines

Delegate	Package	Tax	Total
Mr Attendee 2	2 day non-residential	-£28.33	-£169.99
Mr Attendee 2	10% charge for less than 25 days notice	£2.83	£17.00

Payments

Date	Ref	Via	Amount
03/05/2016 10:04:22	Credit for invoice 41034	Credit	-£169.99
03/05/2016 10:04:22	Credit for invoice 41034	Credit	£17.00

£155.83	£31.16	£186.99	£339.98	-£152.99
----------------	---------------	----------------	----------------	-----------------

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Figure 4 : Cancelled attendee, with payment

Cancellation of booking by admin operator

An admin operator can cancel a booking at any time, however the same cancellation reference date is used at the point of calculating the cancellation charges.

The same process is followed as per normal, selecting the Cancel This booking from the booking pages, however a new set of options are available, allowing a cancellation charge to be applied, and (if permitted) changed to another option within the cancellation policy:

The screenshot displays the KxRegistration admin interface. At the top, there are navigation tabs: DASHBOARD, EVENTS, GLOBAL CONFIGURATION, and LOGOUT. On the left, a sidebar menu includes 'Items', 'Invoices/Credit notes', 'Payment audit', 'Available tasks', 'Resend booking confirmed emails', and 'Cancel this booking' (highlighted in yellow). The main content area shows a list of bookings with columns for 'Cancelled', 'Hotel', 'Partner', 'Spouse', 'Student', 'Default', and 'Participant'. Below the list, there is a section titled 'Cancellation charge options' highlighted with a red border. This section contains four options, each with a radio button and a 'Charge' label:

- less than 25 days prior to start of event**: 10% charge for less than 25 days notice. Total: £46.00, Tax: £7.67.
- less than 5 days prior to start of event**: Full charge - late notice. Total: £551.99, Tax: £92.00.
- less than 10 days prior to start of event**: 25% charge for cancellation. Total: £115.00, Tax: £19.17.
- No Charge**: No Charge. Total: £0.00, Tax: £0.00.

Below the options, there is a checkbox for 'Send cancellation email to booker?' and a 'Cancel booking' button. At the bottom of the page, there is a small copyright notice: 'KxRegistration v2015.0 (29/04/16 18:34) Licensed to Kinetic Solutions QA, expires 1 February 2020 Copyright © Kinetic Solutions Ltd 2016'.

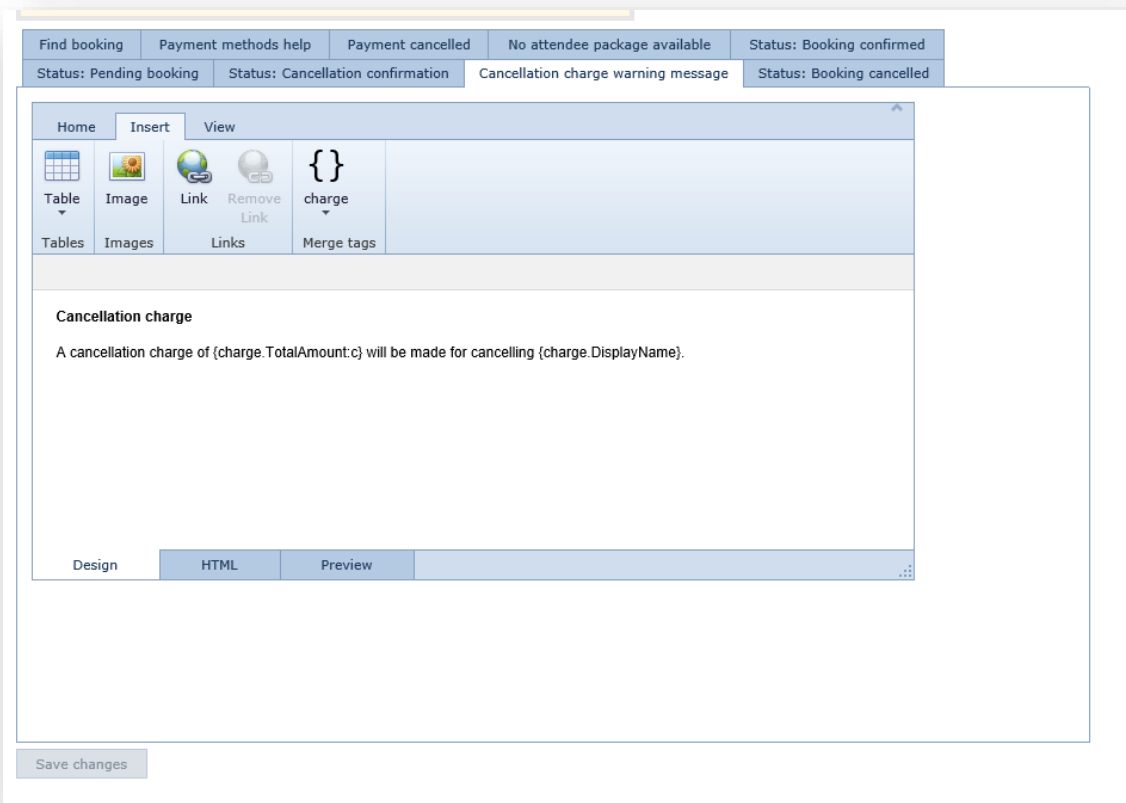
The default cancellation rule that would be applied is displayed and pre-selected, however any other rule within the policy can be selected as a cancellation charge, including no-charge.

Selecting the charge to apply and selecting Cancel booking, will complete the cancellation process with the charge selected and the remaining process can be completed with the same processes as described above.

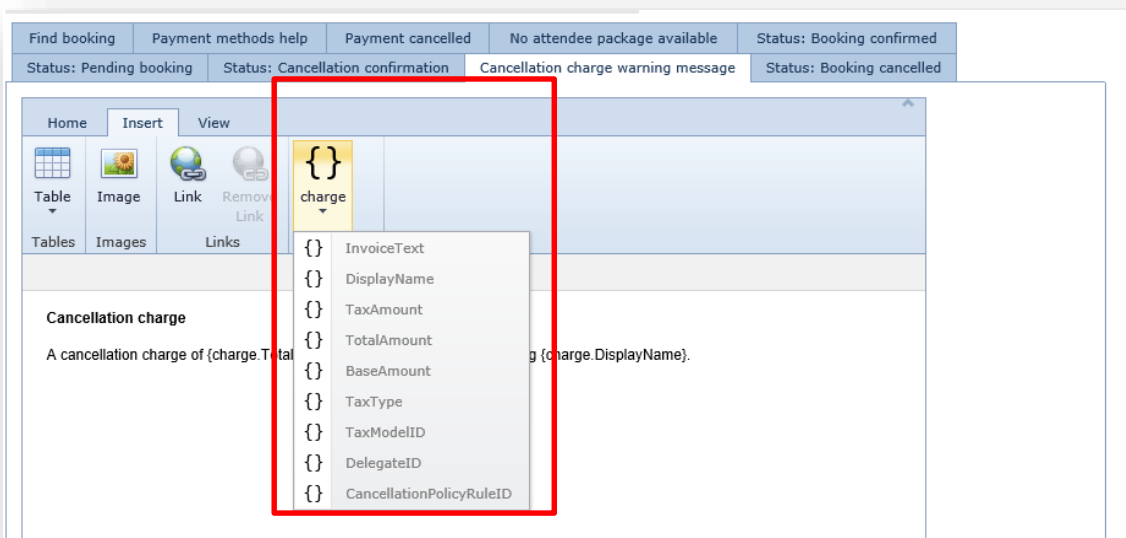
Cancellation charge Booker message content

The content displayed to the Booker during the cancellation process can be configured using the Additional Content configuration section of the Global Configuration section.

Select the Cancellation Charge Warning Message tab to edit the content, which is defaulted to the value shown:



Merge data is available from the charge calculated which can be entered by selecting the charge merge tag option:



Admin cancellation of attendee

Outline

Whilst admin cancellation of a booking was included in 2014, the cancellation of an individual attendee was not provided meaning that for an admin operator to cancel a single attendee the booker page would be accessed and the selected attendee cancelled.

With the introduction of the cancellation policy, the admin operator needs to cancel an attendee and have the ability to override the cancellation charge, which wouldn't be available within the bookers page.

Details

In order to cancel an attendee from the admin suite, select the attendee that is to be cancelled from the booking page:

Dashboard > Current events > Maths event > Booking 5672

Booking details for booking # 5672 - Mr Booker One (Confirmed)

#	Type	Name	Email	Att. Package
>	Default	Mr Attendee One	steve@kinetic-solutions.co.uk	2 day non-residential
>	Default	Mr Attendee Two	steven.ashley@kinetic-solutions.co.uk	2 day non-residential

Booker details

Attendees

Items

Invoices/Credit notes

Payment audit

Available tasks

Resend booking confirmed email:

Cancel this booking

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This will display the attendee details page. Select the Cancel This Attendee option from the tasks section on the left side:

The screenshot shows the 'Admin for KxRegistration' interface. At the top, there are navigation tabs: DASHBOARD, EVENTS, GLOBAL CONFIGURATION, and LOGOUT. Below this is a breadcrumb trail: Dashboard > Current events > Maths event > Booking 5672 > Attendee Mr Attendee Two. The main heading is 'Booking details for booking # 5672 - Mr Booker One (Confirmed)'. On the left, a sidebar menu includes 'Back to booking', 'Summary', 'Edit details', 'Personal details', 'Packages', 'Questions & answers', 'Available tasks', and 'Cancel this attendee'. The 'Available tasks' menu item is highlighted with a red box. The main content area is divided into several sections: 'Attendee details' (with an 'Edit these details' link), 'Custom data', 'Packages', 'Answers', and a booking summary table. The 'Attendee details' section lists: Attendee #: 4087, Type: Default, Name: Mr Attendee Two, Email address: steven.ashley@kinetic-solutions.co.uk, Address 1: jhbfj, Address 2: jhbfj, Town: hbf, County: jhfjhb, Postcode/Zip code: efkjfewkj, Telephone: 234324. The 'Custom data' section lists: Name as to appear on the badge, Mobile Phone, Department, Company Name, and Field 5. The 'Packages' section shows: Primary: 2 day non-residential, Optional: Quantity Test. The 'Answers' section shows: Dietary preference: Vegetarian. The booking summary table lists: Booking #: 5672, Booking status: Confirmed, Created on: 05/02/2015 14:44:59, Submitted: 05/02/2015 14:46:16, Booking confirmed: 05/02/2015 14:47:25, and Booking status link: http://dev.kxweb.com/KxRegistrationBE/MathsEvent/17865df63ffa4909a54db982c22dc851/5672. At the bottom left, there is a small copyright notice: 'KxRegistration v2015.0 (24/05/16 18:28) Licensed to KxDemo, expires 31 July 2016 Copyright © Kinetic Solutions Ltd 2016'.

New features introduced in 2014.2

Expansion of hashing algorithms for HTTP POST interfaces to support HMAC-SHA256

Outline

HTTP POST interfaces can generate SHA1 and MD5 hashes for fingerprint generation within the HTTP POST interface configuration. Supported algorithms are as follows:

- HMAC-SHA256 with key
- HMAC-SHA256 with key and Base64 encoding
- SHA1 with Base64 encoding
- MD5 with Base65 encoding

Details

The HTTP POST interface can output a hash using the following terminology which can include merge data to allow dynamic data to be calculated as part of the hash:

```
{HASH Algorithm}({String to HASH})
```

e.g.

```
SHA1 (12345-ABC- {Booking.PaymentRequestAmount})
```

```
MD5 (ABC. {Extender.CurrentDateTime} . {Booking.PaymentRequestAmount})
```

The available hashing calculations are:

- SHA1
- MD5
- SHA1-B64
- MD5-B64
- HMACSHA256-keyed
- HMACSHA256-keyed-B64

Where the hash has –B64 the output string of the hash is converted to a Base64 string rather than a hex string.

Where the hash has –keyed the value of the key is retrieved from the web.config-appSetting of HMACSHA256.Key which will be used to generate a binary key of the hash algorithm



New features introduced in 2014.1

Additional payment interface option to process payment via an iFrame

Outline

In order to support some territories requirements for use of an iframe for POST/GET style payment interfaces, a new set of options have been added to the Payment Processor configuration to allow support for iframes for the payment process.

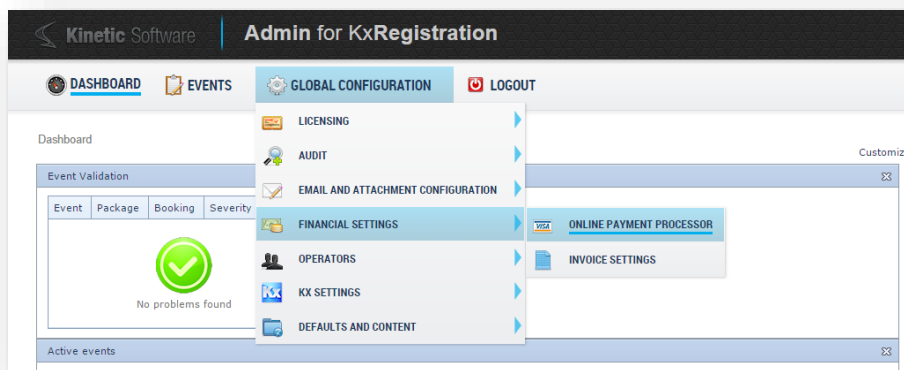
Only the HTTP POST interface supports this option.

Please note that this will only operate for payment processors which support a GET function for interfacing and should only be used after confirmation from Kinetic Solutions that the interface will support this operation.

No KxRegistration styling is displayed, and the iframe is rendered as a full page view and is purely to support specific client requirements for interfacing.

Details

Enter the Online Payment Processor options:



Within the configuration, enter iFrame for both the Interface Method and Redirect Type options:

The screenshot shows the 'Admin for KxRegistration' interface. At the top, there are navigation tabs: DASHBOARD, EVENTS, GLOBAL CONFIGURATION, and LOGOUT. Below this, the breadcrumb 'Dashboard > Online payment processor' is visible. The configuration area includes a dropdown for 'Interface' set to 'HTTP POST', a text field for 'Post URL' containing 'https://test.authorize.net/gateway/transact.dll', and a checkbox for 'Payment failure cancels booking'. There are two buttons: 'Save changes' and 'Generate SQL Script for interface'. A table titled 'Required fields' lists various configuration parameters and their values. Two rows are highlighted in yellow: 'Interface method (POST or GET or iFrame)' with value 'iFrame' and 'Redirect type (Server Transfer, Redirect, Post, Inline, MetaRefresh, iFrame)' with value 'iFrame'. Below the table, 'Optional fields' are listed.

Field Name	Value
Payment provider name (information only)	Authorize.net
Interface method (POST or GET or iFrame)	iFrame
Booking/Cart ID field name	x_invoice_num
Use short booking identifiers (YES or NO)	YES
Amount field name	x_amount
Multiply amount by (must be +ve integer numeric)	1
Amount format string	F
Format string culture	en-GB
Postback URL field name	x_relay_url
Response result (success) field name	x_response_code
Response success if value=	1
Response authcode field name	x_auth_code
Response amount field name	x_amount
Response booking/Cart ID field name	x_invoice_num
Redirect type (Server Transfer, Redirect, Post, Inline, MetaRefresh, iFrame)	iFrame

The payment process will now operate within an iframe within a webpage hosted by KxRegistration:

The screenshot shows a web browser window with the URL 'dev.kxweb.com/KxRegistrationBE/Registration/BookingSummary.aspx?e=BB5458C850523B2A12FFC357044'. The page header features the 'Kinetic Solutions' logo and the phone number '01234 757350'. A navigation bar contains 'Deposits', 'RCP', and 'Payments'. The main content area displays 'TOTAL TO PAY NOW' as 169.99. Under 'CARD DETAILS', there are input fields for 'Name of card holder' (filled with 'Rob') and a dropdown for 'Card type' (set to 'Select').

Configuration option to turn off in-line transfer of attendee details to Kx

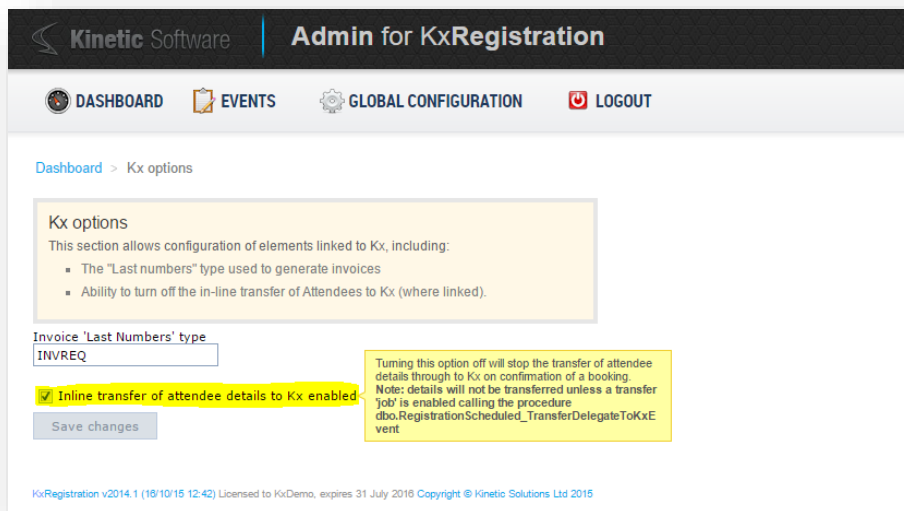
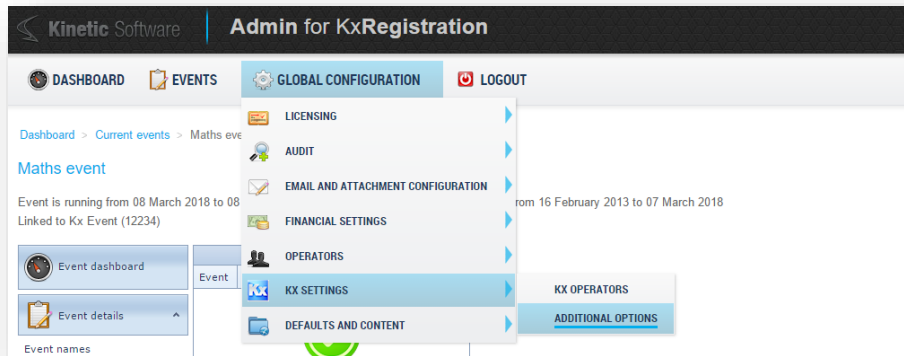
Outline

The release of KxRegistration 2014 removed the need for an offline SQL Agent job to process attendees through to Kx and made the process "inline", where the attendee data was processed at the point of confirming the booking.

This conflicts with some client's use of KxRegistration where the agent job was disabled and the transfer of attendee data was manually processed through Excel spreadsheet export/imports.

Details

Within the Additional Options of the Kx Settings section, a new option has been added to turn off the inline transfer of attendee details:



The option is enabled by default.

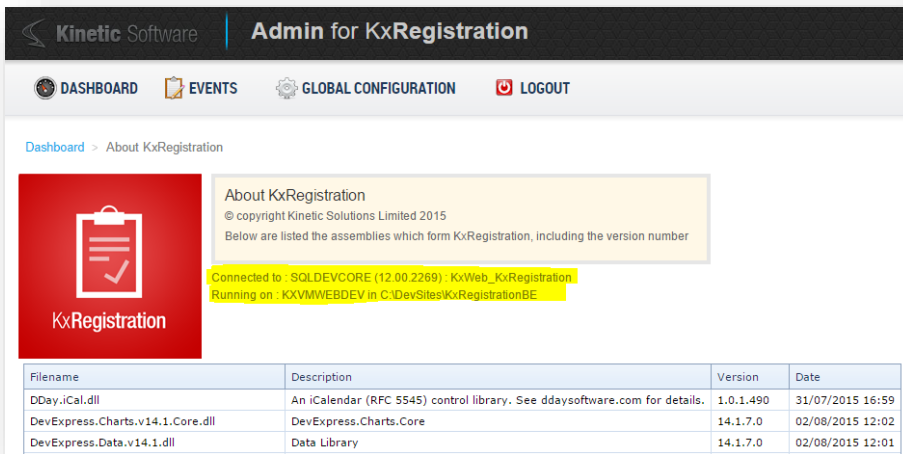
Note if this option is turned off, the transfer of attendee details will only occur if a SQL Agent job is created or manual transfer of details is carried out.

Added additional connection information to the About screen for debug/support assistance

Outline

In order to assist support diagnostics, information about the connection/hosting environment has been added to the About screen within the global configuration menu.

Details



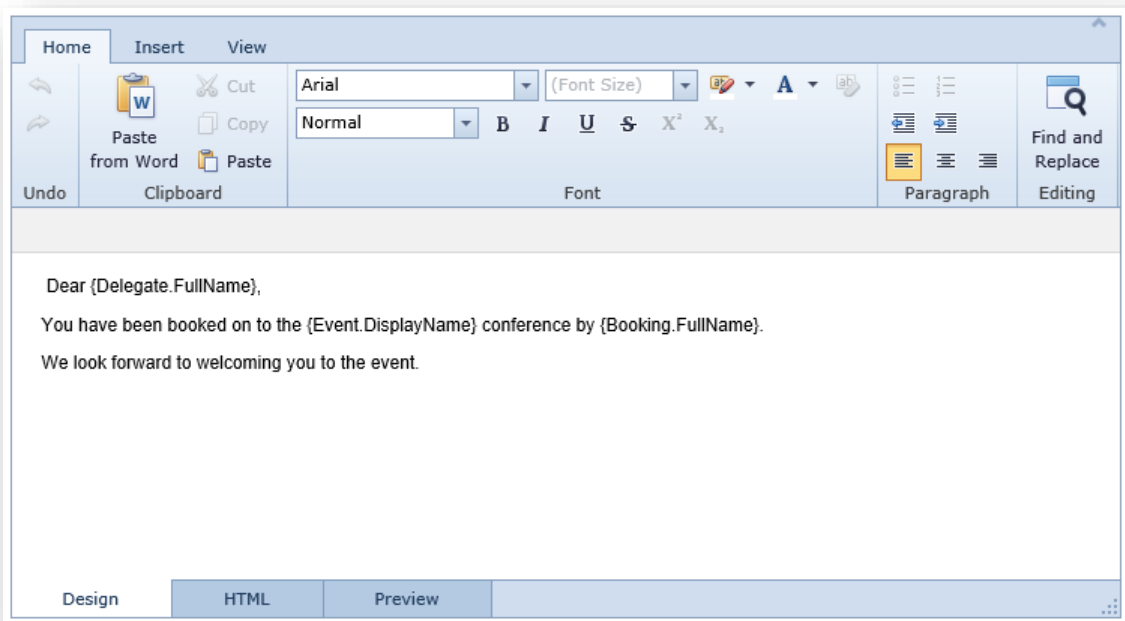
This new information provides the following:

- Name of SQL Server the site is connected to
- Version of SQL Server
- Name of the database
- The name of the IIS server that the site is running on
- The local folder where the site resides on the IIS server.

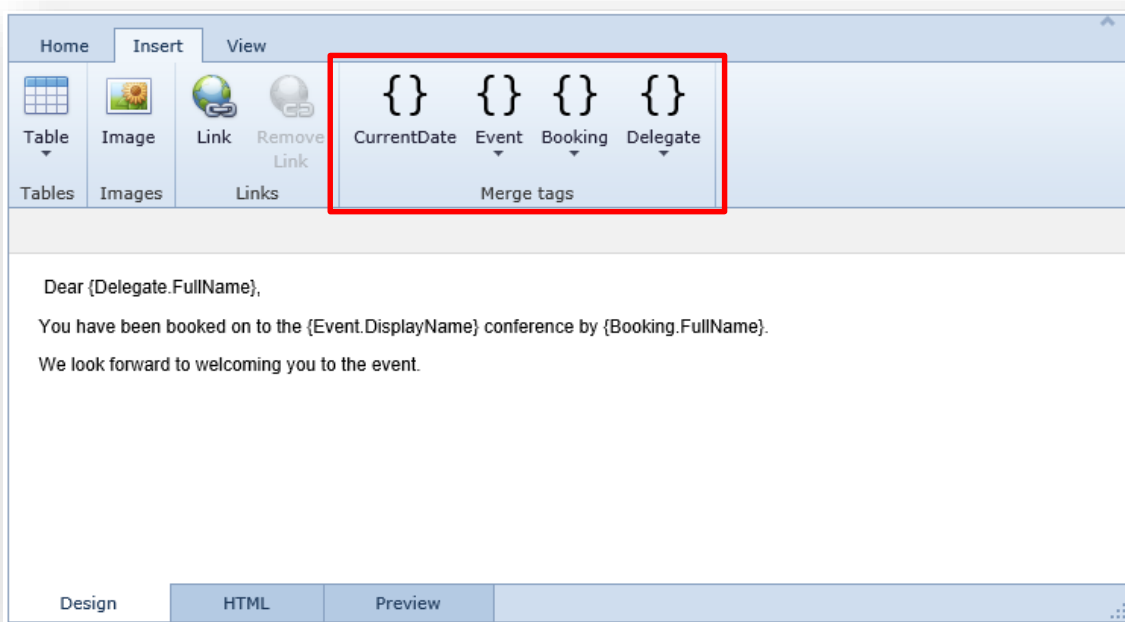
Changes, improvements and fixes to 2015.0

Revised content editor layout

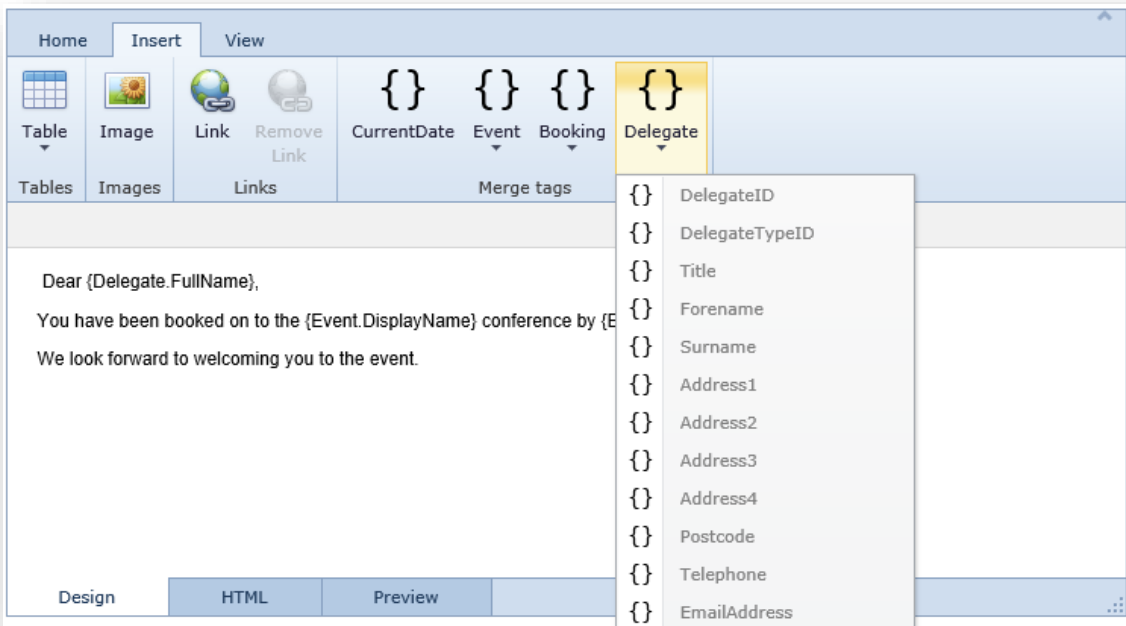
The content editor for HTML content has been updated and now features a Ribbon layout as illustrated below:



Merge tags appear on the Insert tab:



Selecting one of the tags with the dropdown, the list of available data will be listed:

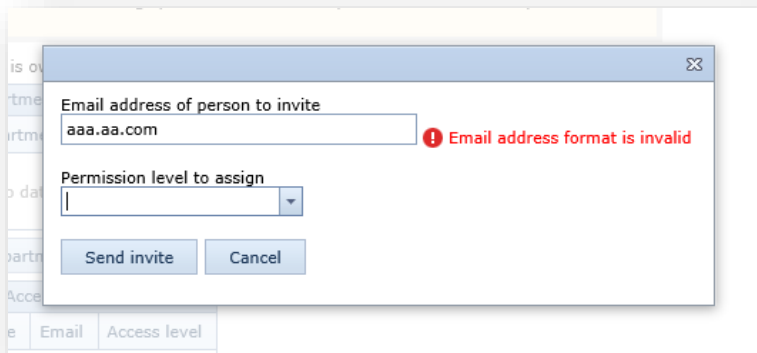


Incorrect URL supplied in portal welcome email

Within the welcome email for the extranet operators, the merging of the URL used to insert the link into the template resulted in a format which was invalid for some browsers to parse.

Extranet invite email formatting validation

When creating an invite for an extranet operator, the email address entered was not validated, resulting in the invite email not being able to be sent. Validation is now enforced prior to sending the invite.



Export of confirmed attendees output numbers rather than names

When exporting the grid of confirmed attendees, the Name column resulted in a number being output rather than the name of the attendee. The name is now correctly output.

Cancelled attendees picked up as billing adjustments

Within a booking, where an attendee has been cancelled but the booking is still active, the cancelled attendee was incorrectly identified as a billing adjustment. This no longer occurs



Creation of extranet operator failed due to missing columns

When an invited extranet operator attempted to create an account, the creation process failed with errors reporting missing columns in WebUser table. These missing columns have been created and accounts can now be created.

Incorrect characters stored in audit records caused error message on dashboard screen

In some scenarios, characters were logged in the audit area which then resulted in an error when retrieving the data from the database to display within the admin section. This manifested itself as an error popup when entering the dashboard page, and inability to view the audit from the View Audit page. This invalid character was then subsequently logged into the audit, resulting in the error never clearing overtime as it was constantly being re-introduced. These invalid characters are now removed from the retrieved data which results in the message not being displayed.

Resolved issue where Find Booking with incorrect booking data resulted in an error screen

When using the Find Booking page, if the information entered did not find a booking, the booker was presented with an error page and an error audit was logged.

Resolved fault where linking multiple questions to the same UDF resulted in the attendee appearing duplicated in Kx

When multiple questions linked to an event were assigned to the same UDF in Kx, the resultant attendees transferred appeared duplicated in the delegate screens:

The system will continue to permit multiple links, however only the highest value entered by the booker will be transferred to Kx.

Splitting of credit note assignment from payments in invoice view

When a booking/attendee is cancelled, the credit note was previously assigned to the original invoice and listed in the payments section. This caused some confusion where total payments (including credit notes assignments) appeared to indicate a significant overpayment.

Now credit notes are totalled and listed separately in the invoices page:

Admin for KxRegistration

DASHBOARD EVENTS GLOBAL CONFIGURATION LOGOUT

Dashboard > Current events > Maths event > Booking 7711

Booking details for booking # 7711 - Mr Attendee 1 (Confirmed)

Invoices & credit notes
Below are listed the invoices and credit notes which have been logged against the booking.

#	Total Nett	Total Tax	Total	Paid	Credits	Due	Payment	View
41034	£283.32	£56.66	£339.98	£339.98	£152.99	-£152.99	Add refund	

Invoice lines				Payments			
Delegate	Package	Tax	Total	Date	Ref	Via	Amount
Mr Attendee 1	2 day non-residential	£28.33	£169.99	03/05/2016 10:04:11	1968	Authorize.net	£339.98
Mr Attendee 2	2 day non-residential	£28.33	£169.99				

Credits			
Date	Ref	Via	Amount
03/05/2016 10:04:22	Credit invoice 41035	Credit	£169.99
03/05/2016 10:04:22	Credit invoice 41035	Charge	-£17.00

>	41035	-£127.49	-£25.50	-£152.99	£0.00	-£152.99	£0.00	
		£155.83	£31.16	£186.99	£339.98		-£152.99	

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Changes, improvements and fixes in 2014.2

Billing adjustments where new invoice isn't raised when 0.00 balance previously

Where adjustments had been made to a booking which resulted in the booking being non-chargeable, i.e. the invoices and credit notes balanced to 0.00 (zero), a further change to the booking which should result in a new invoice failed to raise the new invoice.

CyberSource HTTP POST interface script added

A new HTTP POST interface script supporting CyberSource Secure Acceptance Web/Mobile interface has been added, utilising the new HMAC-SHA256 hashing algorithms.

Please review the document [KxRegistration.CyberSource Configuration Guide.docx](#) for details on configuration for both KxRegistration and CyberSource.

Changes, improvements and fixes in 2014.1

Single entry of emails still validated as though double entry was enabled

When the "double entry of email addresses" is not enabled, the confirm email address input field is still required and compared to the email address even though it is not visible.

Resource quantity calculation incorrect

The logic for calculating the quantity of resources available where more than 1 has been selected is incorrect. This can result in valid quantities being rejected and invalid quantities being accepted in various circumstances.

Limit of quantity calculation for packages during booking process incorrect

Where an optional package has a min/max quantity specified but the total available is less than the max quantity, the booker is still able to select more than is available up to the max value.

After applying the fix, the maximum quantity to select will be the minimum of the max quantity configured OR the total quantity available.

Paging removed results in unable to select packages in admin sections

Screens where packages and questions could be selected only showed the first 10 packages/questions. As a result of removing the paging options, the grids do not display all options available.

Admin editing of answers to questions do not save when original value is blank

Where an attendee does not have any answers to questions, editing the answers in the admin sections caused errors within the grids and the answers were not saved.

Duplicate payment posts for same invoice resulted in duplicated payments

Duplicate payment posts for same invoice result in multiple payments. Some payment processors post the same data multiple times for a booking, which results in the payment being logged multiple times.

A new configuration setting is required within the appSettings section of the web.config:

Add appSetting of BlockDuplicatedPaymentReferencesForSameInvoice should have a value of True to enable blocking of payments of the same reference.

Cancel payment posts received after success post from payment processor

Some payment processors send the response posts in random orders which can result in a cancelled/failed post being received after a successful one. This results in the booking being cancelled if the "Allow Confirmed Bookings to be Cancelled" setting is enabled. Subsequent cancelled payment messages are ignored when the booking has been confirmed.

Extranet emails are not sent when using TLS

When TLS was enabled, sending an invite for an extranet operator resulted in the email not being sent as TLS was not being enabled for this email type.

Quantity limited resource calculating incorrectly when assigned to multiple packages

When a quantity-limited resource is assigned to multiple packages, the resource is being incorrectly reported as overbooked when it isn't.



Some Unicode characters in emails being displayed as ?

Some Unicode characters are being incorrectly converted to ? when sending even though web.config appSettings setting of "AllowUnicodeEmails" is set to "True".

Unable to reorder attendee packages in admin screen

When clicking on the up/down buttons within the attendee packages admin screen, the page will refresh and the buttons will disappear and the packages are not reordered.

Image URL's saved as absolute

When editing content using the CMS controls, the images are now saved as the absolute URL, e.g. *http://www.url.com/images/image.jpg* rather than relative */images/image.jpg*

Row breaks fail when using grid view for optional packages

Within the booking process, in certain circumstances the optional packages in grid view would result in incorrect row breaks leaving 1-2 packages on a line without the third one which appeared on the line below incorrectly.

Deployment of the upgrade

Database

The following steps should be carried out when upgrading the database:

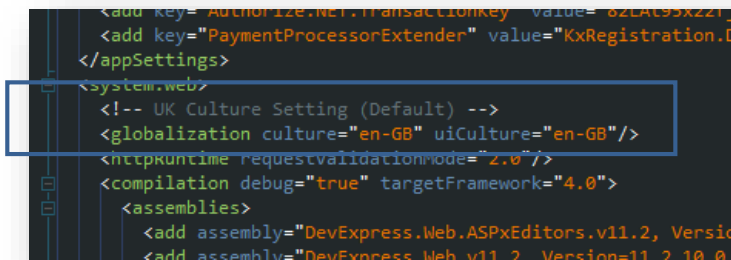
1. Backup the existing database
2. Open and the KxRegistration DB Installation 2015.0 script
3. Perform a Find and Replace on this file replacing DBNAME with the name of the linked Kx database, e.g. Kx_Live, GERM etc.

Website

The following steps should be carried out when upgrading the website:

1. Backup the existing website
2. Delete the \bin\ folder
3. **Delete the \app_themes\ folder**
4. Deploy the Website folder from the deployment package.
5. Retrieve the existing Connection String/globalization settings from the backup of the web.config file into the clipboard
6. Open the new Web.config and paste the connection string, replacing the current one in the file.
7. Ensure that any existing settings are copied back in place:
 - a. PaymentProcessorExtender
 - b. Authorize.NET.TransactionKey
 - c. HMACSHA256.Key
 - d. ICalGenerator
 - e. IConvertHtmlToPDFFile
 - f. IAuditExtraInfoProvider
 - g. Auditor
 - h. StopCachingUser
 - i. CacheSeconds

For US sites, the web.config should also be edited to use the en-US culture settings to ensure that the US date and currency formats are used:



```
<add key="Authorize.NET.TransactionKey" value="62EAC95X221j
<add key="PaymentProcessorExtender" value="KxRegistration.0
</appSettings>
<system.web>
<!-- UK Culture Setting (Default) -->
<globalization culture="en-GB" uiCulture="en-GB"/>
<httpRuntime requestValidationMode="2.0"/>
<compilation debug="true" targetFramework="4.0">
<assemblies>
<add assembly="DevExpress.Web.ASPxEditors.v11.2, Versio
<add assembly="DevExpress.Web.v11.2, Version=11.2.10.0
```