Event Handlers

Creating an event handler in Blesta consists of merely filling in a stubbed callback method, or returning an array of callbacks from a plugin's getEvents() method. Blesta offers a number of events that are automatically triggered when needed. The default handlers for these events may be found in the */installd ir/core/Util/Events/Observers/* directory (*/installdir/components/events/default/* in the old system). You can paste your event handler code directly into any of the default handler methods, or more preferably, create a plugin to handle the event.

Events

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Create a Plugin to Handle these Events

Any plugin can register an event handler. To see how, check out the Plugin Events section of this manual.

Deprecated Handlers

As of v4.3.0 all of the old event handlers from the Events component (under **/installdir/components/events/default/**) have been deprecated. It is highly recommended that you update your custom events to use the new namespaced event system.

If your plugin uses any of the events below, you need only be sure that your event handler support the deprecated **EventObject** event as well as the new **\Blesta\Core\Util\Events\Common\EventInterface** event.

Refetching Data

When using data from events (especially add events), you may find that certain fields are not available. It is often useful to refetch data using one of [Model]::get() methods rather than using something like vars.

Event	Triggered When	Default Event Handler	Parameters	Returns	Since
Appcontrol ler. preAction	A URI is requested	\Blesta\Core\Ut il\Events\Obser vers\AppContro Iler::preAction()	void	void	3.0
		Deprecated: EventsAppCont rollerCallback:: preAction()			
Appcontrol ler. structure	A URI is requested without AJAX	\Blesta\Core\Ut i\Tevents\Obser vers\AppContro ller::structure() Deprecated: EventsAppCont rollerCallback:: structure()	 controller - The controller being requested action - The action being requested portal - The portal in use ('admin' or 'client') get (<i>since version 4.3</i>) - The GET page arguments plugin (<i>since version 4.3</i>) - The name of the plugin in the request, if any, otherwise <i>null</i> 	array Key/value pairs to be set as variables in the structure view. Special keys include: • head - An array of markup to set in the <head> tag • body_start - An array of markup to set just after the <body> tag • body_end - An array of markup to set just before the </body> tag</head>	3.3
CalendarE vents. addBefore	A calendar event is created	\Blesta\Core\Ut i\Events\Obser vers\CalendarE vents:: addBefore()	 vars - An array of input data which may include: company_id - The ID of the company under which this event was added staff_id - The ID of the staff member that created this event shared - VMether or not this event is shared among other staff members of this company title - The title of the event url - The URL this event is linked to start_date - The start date of the event end_date - The the date of the event all_day' - VMether or not this event spans the entire day of the start/end dates 	array Key/value pairs to be set as variables in the CalendarEvents::add() method. Special keys include: • vars - An array of input data which may include: • company_id - The ID of the company under which this event was added • staff_id - The ID of the staff member that created this event • shared* - Whether or not this event is shared among other staff members of this company • title - The title of the event • and_date - The adrate of the event • all_day* - Whether or not this event spans the entire day of the start/end dates	5.3

CalendarE vents. addAfter Deprecate d: Calenda rEvents. add	A calendar event is created	\Blesta\Core\Ut i\Events\Obser vers\CalendarE verst:: addAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Cale ndarEve nts:: add() • EventsC alendar EventsC alback:: add()	 calendar_event_id - The ID of the calendar event that was created. vars - An array of input data which may include: company_id - The ID of the company under which this event was added staff_id - The ID of the staff member that created this event shared - Whether or not this event is shared among other staff members of this company title - The title of the event url* - The URL this event is linked to start_date - The start date of the event end_date - The end date of the event all_day* - Whether or not this event spans the entire day of the start/end dates 	void	4.1
CalendarE vents. editBefore	A calendar event is updated	\Blesta\Core\Ut ii\Events\Obser vers\CalendarE vents:: editBefore()	 calendar_event_id - The ID of the calendar event that was updated. vars - An array of input data which may include: company_id - The ID of the company under which this event was added staff_id - The ID of the staff member that created this event shared' - Whether or not this event is shared among other staff members of this company title - The title of the event url' - The URL this event is linked to start_date - The start date of the event end_date - The end date of the event all_day' - Whether or not this event spans the entire day of the start/end dates 	array Key/value pairs to be set as variables in the CalendarEvents::edit() method. Special keys include: • vars - An array of input data which may include: • company_id - The ID of the company under which this event was added • staff_id - The ID of the staff member that created this event • shared* - Whether or not this event is shared among other staff members of this company • title - The tile of the event • and_tate - The start date of the event • all_day* - Whether or not this event spans the entire day of the start/end dates	5.3
CalendarE vents. editAfter Deprecate d: CalendarE vents.edit	A calendar event is updated	\Blesta\Core\Ut i\Events\Obser vers\CalendarE vents:: editAfter() Deprecated: • \Blesta\ Core\Uti \Events \Observ ers\Cale ndarEve nts:: edit() • EventsC allendar EventsC allendar EventsC allendar EventsC allendar	 calendar_event_id - The ID of the calendar event that was updated. vars - An array of input data which may include: company_id - The ID of the company under which this event was added staff_id - The ID of the staff member that created this event shared* - Whether or not this event is shared among other staff members of this company title - The title of the event url* - The URL this event is linked to start_date - The end date of the event all_day' - Whether or not this event spans the entire day of the start/end dates old_calendar_event (since version 4.3) - An object representing the previous state of the calendar object company_id - The ID of the staff member that created this event was added staff_id - The ID of the staff member that created this event was added staff_id - The ID of the staff member that created this event was added staff_id - The ID of the staff member that created this event was added staff_id - The ID of the staff member that created this event was added staff_id - The ID of the staff member that created this event was added staff_id - The ID of the staff member that created this event shared - Whether or not this event is shared among other staff members of this company title - The tile of the event url - The URL this event is linked to start_date - The end date of the event all_day - Whether or not this event spans the entire day of the start/end dates start/end dates start/end dates start/end dates all_day - Whether or not this event spans the entire day of the start/end dates staff_id1, name - The last name of the staff user that create the calendar event 	void	4.1
CalendarE vents. deleteBefo re	A calendar event is removed	\Blesta\Core\Ut il\Events\Obser vers\CalendarE vents:: deleteBefore()	calendar_event_id - The ID of the calendar event that was removed.	void	5.3
CalendarE vents. deleteAfter Deprecate d: CalendarE vents. delete	A calendar event is removed	\Blesta\Core\Ut ii\Events\Dbser vers\CalendarE vents:: deleteAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Cale ndarEve nts:: delete() • EventsC alendar EventsC alendar	 calendar_event_id - The ID of the calendar event that was removed. old_calendar_event (since version 4.3) - An object representing the previous state of the calendar object company_id - The ID of the company under which this event was added staff_id - The ID of the staff member that created this event shared - Whether or not this event is shared among other staff members of this company title - The title of the event ult - The URL this event is linked to start_date - The start date of the event end_date - The end the of the event all_day - Whether or not this event spans the entire day of the start/end dates staff_first_name - The first name of the staff user that create the calendar event 	void	4.1

ClientGrou ps. addBefore	A client group is created	\Blesta\Core\Ut ii\Events\Obser vers\ClientGro ups:: addBefore()	 vars - An array of input data which may include: name - The name of this group description of this group company_id - The company ID this group belongs to color* - The HTML color that represents this group 	array Key/value pairs to be set as variables in the ClientGroups::add() method. Special keys include: • vars - An array of input data which may include: • name - The name of this group • description [*] - A description of this group • company_id - The company ID this group belongs to • color* - The HTML color that represents this group	5.3
ClientGrou ps. addAfter Deprecate d: ClientGr oups.add	A client group is created	\Blesta\Core\Ut i\Events\Obser vers\ClientGro ups::add() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Clie ntGroup s::add() • EventsC lientGro upsCall back:: add()	 client_group_id - The ID of the client group that was created. vars - An array of input data which may include: name - The name of this group description* - A description of this group company_id - The company ID this group belongs to color* - The HTML color that represents this group 	void	4.1
ClientGrou ps. editBefore	A client group is updated	\Blesta\Core\Ut i\Events\Obser vers\ClientGro ups:: editBefore()	 client_group_id - The ID of the client group that was updated. vars - An array of input data which may include: name - The name of this group description* - A description of this group company_id - The company ID this group belongs to color* - The HTML color that represents this group 	array Keylvalue pairs to be set as variables in the ClientGroups::edit() method. Special keys include: • vars - An array of input data which may include: • name - The name of this group • description* - A description of this group • company_id - The company ID this group belongs to • color* - The HTML color that represents this group	5.3
ClientGrou ps. editAfter Deprecate d: ClientGr oups.edit	A client group is updated	\Blesta\Core\Ut i/[Events\Obser vers\ClientGro ups::edit() Deprecated: • \Blesta\ Core\Uti i/Events \Observ ers\Clie ntGroup s::edit() • EventsC lientGro upsCall back:: edit()	 client_group_id - The ID of the client group that was updated. vars - An array of input data which may include: name - The name of this group description* - A description of this group company_id - The company ID this group belongs to color* - The HTML color that represents this group old_client_group (since version 4.3) - An object representing the previous state of the group id - The ID of this group ame - The name of this group description - A description of this group company_id - The company ID this group belongs to company_id - The company ID this group 	void	4.1
ClientGrou ps. deleteBefo re	A client group is removed	\Blesta\Core\Ut il\Events\Obser vers\ClientGro ups:: deleteBefore()	 client_group_id - The ID of the client group that was removed. 	void	5.3
ClientGrou ps. deleteAfter Deprecate d: ClientGr oups. delete	A client group is removed	\Blesta\Core\Uti il\Events\Obser vers\ClientGro ups::delete() Deprecated: • \Blesta\ Core\Uti \Levents \Observ ers\ClientGro s:: delete() \$\Structure back:: delete()	 client_group_id - The ID of the client group that was removed. old_client_group (since version 4.3) - An object representing the previous state of the group id - The ID of this group name - The name of this group description - A description of this group company_id - The company ID this group belongs to color- The HTML color that represents this group 	void	4.1
Clients. addBefore	A client is added	\Blesta\Core\Ut i\Events\Obser vers\Clients:: addBefore()	 vars - An array of input data which may include: id_code - The client's reference ID code user_id - The client's user ID client_group_id - The client group this user belongs to status* - The status of this client 	array Key/value pairs to be set as variables in the Clients::add() method. Special keys include: • vars - An array of input data which may include: • id_code - The client's reference ID code • user_id - The client's user ID • client_group_id - The client group this user belongs to • status* - The status of this client	5.3

Clients. addAfter Deprecate d: Clients. add	A client is added	\Blesta\Core\Ut il\Events\Obser vers\Clients:: addAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Clie nts:: add() • EventsCa Ilback:: add() VBlesta\Core\Ut	 client_id - The ID of the client that was added. vars - An array of input data which may include: id_code - The client's reference ID code user_id - The client's user ID client_group_id - The client group this user belongs to status' - The status of this client 	void	5.3
addNoteB efore	created	IllEvents/Obser vers/Clients:: addNoteBefore ()	 vars - An array of input data which may include: title - The title of the note description - The description of the note stickied* - Whether this note is sticked or not 	Key/value pairs to be set as variables in the Clients::addNote() method. Special keys include: vars - An array of input data which may include: vars - An array of input data which may include: vars - An array of the note vars - The description of the note vars - Stickied* - Whether this note is sticked or not	0.0
Clients, addNoteAf ter Deprecate d: Clients, addNote	A note is created	VBlesta/Core/Ut il/Events/Obser vers/Clients::ad dNoteAfter() Deprecated: • \Blesta\ Core/Uti I/Events \Observ ers/Clie nts:: addNote () • EventsC lientsCa Ilback:: addNote ()	 note_id - The ID of the note that was created. vars - An array of input data which may include: title - The title of the note description - The description of the note stickied* - Whether this note is sticked or not 	void	4.1
Clients. createBefo re	A client is created	\Blesta\Core\Ut il\Events\Obser vers\Clients:: createBefore()	 vars - An array of input data which may include: username - The username for this user new_password - The password for this user confirm_password - The password for this user client_group.id - The client group this user belongs to status - The status of this client ('active', 'inactive', 'fraud') first_name - The first name of this contact title - The business title for this contact title - The business title for this contact company - The company/organization this contact belongs to email - This contact's address address1 - This contact's address address2 - This contact or 3166-1 country code zip - The 2/character ISO 3166-1 country code numbers - An array of clumber data custom - An array of custom fields in key/value format settings - An array of client settings setdirgs- An array of client settings setdirgs- therwise 	array Key/value pairs to be set as variables in the Clients::create() method. Special keys include: vars - An array of input data which may include: username - The username for this user confirm_password - The password for this user confirm_password - The password for this user client_group_id - The client group this user belongs to status - The status of this client ('active', 'inactive', 'fraud') first_name - The last name of this contact last_name - The last name of this contact company - The company/organization this contact belongs to email - This contact's address address1 - This contact's address address2 - This contact's address address2 - This contact's ddress address2 - This contact's ddress address1 - The 3-character ISO 3166-2 subdivision code zip - The 2-character ISO 3166-2 subdivision code country - The 2-character ISO 316-1 country code numbers - An array of custom fields in key/value format settings address1 - An array of client settings send_registration_email - 'true' to send client welcome email, 'false' otherwise	5.3
Clients. createAfter Deprecate d: Clients. create	A client is created	\Blesta\Core\Ut il\Events\Obser vers\Clients::cr eateAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Clie nts:: create() • EventsCa lientsCa liback:: create()	client - An object representing the client that was created.	void	3.1

Clients. editBefore	A client is updated	\Blesta\Core\Ut inEvents\Obser vers\Clients:: editBefore()	 client_id - The ID of the client that was updated. vars - An array of input data which may include: id_code - The client's reference ID code user_id - The client's user ID client_group_id - The client group this user belongs to status* - The status of this client 	array Key/value pairs to be set as variables in the Clients::edit() method. Special keys include:	5.3
Clients. editAfter Deprecate d: Clients. edit	A client is updated	\Blesta\Core\Ut ikEvents\Observers\Clients::ed vers\Clients::ed ikAfter() Deprecated: • \Blesta\ Core\Uti IkEvents \Observervers\Clients:: edit() • EventsC lientsCa liback:: edit()	 client_id - The ID of the client that was updated. vars - An array of input data which may include: id_code - The client's reference ID code user_id - The client's user ID client_group_id - The client group this user belongs to status' - The status of this client old_client (since version 4.3) - An object representing the previous state of the client ID id - Internal ID of the group id - format - The format with which to display the ID id_ofermat - The client's reference ID code user_id - The client's reference ID code user_id - The client's reference ID code user_id - The client's client formaty_account_id - The ID of the primary payment account for this client primary_account_type - The type pf the primary payment account for this client settings - A list of client settings 	void	4.1
Clients. editNoteB efore	A note is updated	\Blesta\Core\Ut i\Events\Obser vers\Clients:: editNoteBefore ()	 note_id - The ID of the note that was updated. vars - An array of input data which may include: title - The title of the note description - The description of the note stickied* - Whether this note is sticked or not 	array Key/value pairs to be set as variables in the Clients::editNote() method. Special keys include: • vars - An array of input data which may include: • ottle - The title of the note • description - The description of the note • stickied* - Whether this note is sticked or not	5.3
Clients. editNoteAf ter Deprecate d: Clients. editNote	A note is updated	\Blesta\Core\Ut i\Events\Observers\Clients::ed vers\Clients::ed itNoteAfter() Deprecated: · \Blesta\ Core\Uti \Deprecated: · \Blesta\ Core\Uti \Deprecated: · \Blesta\ Core\Uti \Deprecated: · \Blesta\ Core\Uti \Deprecated: · \Blesta\ \Observers editNote () EventsC liback:: editNote ()	 note_id - The ID of the note that was updated. vars - An array of input data which may include: title - The title of the note description - The description of the note stickied - Whether this note is sticked or not old_client_note (since version 4.3) - An object representing the previous state of the client note id - The ID of client note client_id - The ID the client to which this note is assign staf_ id - The ID of the staff member that created this note title - The title of the note description - The full description of this note stickied - Whether to display this not on the client note date_updated - The timestamp in UTC that the note was last updated 	void	4.1
Clients. deleteBefo re	A client is removed	\Blesta\Core\Ut il\Events\Obser vers\Clients:: deleteBefore()	client_id - The ID of the client that was removed.	void	5.3
Clients. deleteAfter Deprecate d: Clients. delete	A client is removed	\Blesta\Core\Utillevents\Observers\Clients::deleteAfter() Deprecated: • \Blesta\Core\Utillevents\Clients::delete() • \Blesta\Core\Utillevents\Clients::delete() • \Blesta\Cirents::delete() • EventsC liback::delete()	 client_id - The ID of the client that was removed. old_client (since version 4.3) - An object representing the previous state of the client id - Internal ID of the group id_format - The format with which to display the ID id_code - The Client's reference ID code user_id - The client's reference ID code client_group_id - The client group this user belongs to status - The status of this client primary_account_id - The ID of the primary payment account for this client status - A list of client status 	void	4.1
Clients. deleteNote Before	A note is removed	\Blesta\Core\Ut i/\Events\Obser vers\Clients:: deleteNoteBefo re()	note_id - The ID of the note that was removed.	void	5.3

Clients.	A note is	\Blesta\Core\Ut		void	4.1
deleteNote After Deprecate d: Clients, deleteNote		il/Events\Obser vers\Clients::de leteNoteAfter() Deprecated: • \Blesta\ Core\Uti ILEvents \Observ ers\Clie nts:: deleteN ote() • EventsC lientsCa Ilback:: deleteN ote()	 note_id - The ID of the note that was removed. old_client_note - An object representing the previous state of the client note id - The ID of client note client_id - The ID the client to which this note is assign staff_id - The ID of the staff member that created this note title - The title of the note description - The full description of this note stickied - Whether to display this not on the client note date_udded - The timestamp in UTC that the note was added date_udded - The timestamp in UTC that the note was last updated 		
Companie s. addBefore	A company is created	\Blesta\Core\Ut il\Events\Obser vers\Companie s::addBefore()	 vars - An array of input data which may include: name - The name of the company hostname - The hostname of the company address' - The address of the company phone* - The phone number of the company fax* - The fax number of the company 	array Key/value pairs to be set as variables in the Companies::add() method. Special keys include: • vars - An array of input data which may include: • name - The name of the company • hostname - The hostname of the company • address* - The address of the company • phone* - The phone number of the company • fax* - The fax number of the company	5.3
Companie s.addAfter Deprecate d: Compa nies.add	A company is created	\Blesta\Core\Ut il\Events\Obser vers\Companies ::addAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Com panies:: add() • EventsC ompani esCallb ack:: add()	 company_id - The ID of the company that was created. vars - An array of input data which may include: name - The name of the company hostname - The hostname of the company address - The address of the company phone* - The phone number of the company fax* - The fax number of the company 	void	4.1
Companie s. editBefore	A company is updated	\Blesta\Core\Ut il\Events\Obser vers\Companies ::editBefore()	 company_id - The ID of the company that was updated. vars - An array of input data which may include: name - The name of the company hostname - The hostname of the company address - The address of the company phone* - The phone number of the company fax* - The fax number of the company 	array Key/value pairs to be set as variables in the Companies::edit() method. Special keys include: • vars - An array of input data which may include: • name - The name of the company • hostname - The hostname of the company • address* - The address of the company • phone* - The phone number of the company • fax* - The fax number of the company	5.3
Companie s.editAfter Deprecate d: Compa nies.edit	A company is updated	\Blesta\Core\Ut il\Events\Obser vers\Companies ::editAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Com panies:: edit() • EventsC ompani esCallb ack:: edit()	 company_id - The ID of the company that was updated. vars - An array of input data which may include: name - The name of the company hostname - The hostname of the company phone* - The hodress of the company fax* - The fax number of the company of acompany (since version 4.3) - An object representing the previous state of the company id - The ID of the company hostname - The hostname of the company of address - The name of the company of a - The ID of the company name - The hostname of the company of address - The address of the company phone - The phone number of the company fax - The fax number of the company 	void	4.1
Companie s. deleteBefo re	A company is removed	\Blesta\Core\Ut il\Events\Obser vers\Companies ::deleteBefore()	 company_id - The ID of the company that was removed. 	void	5.3

Companie	A company is	\Blesta\Core\Ut		void	4.1
deleteAfter Deprecate d: Compa nies.delete	removed	il\Events\Obser vers\Companies ::deleteAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Com panies:: delete() • EventsC ompani esCallb ack:: delete()	 company_id - The ID of the company that was removed. old company (since version 4.3) - An object representing the previous state of the company id - The ID of the company name - The name of the company hostname - The hostname of the company address - The address of the company phore - The phone number of the company fax - The fax number of the company 		
Contacts. addBefore	A contact is added	\Blesta\Core\Ut i\Events\Obser vers\Contacts:: addBefore()	 vars - An array of input data which may include: client_id - The client ID this contact will be associated with user_id* - The user ID this contact belongs to if this contact has their own unique user record contact_type '. The type of contact contact_type_id* - The ID of the contact type if contact_type is 'other' first_name - The first name of this contact tast_name - The last name of this contact company* - The company/organization this contact belongs to email - This contact's address address1* - This contact's address address2* - This contact's address ine two city* - The zoh/postal code for this contact contry zip* - The 2ip/postal code for this contact country* - The 2-character ISO 3166-1 country code, required if state is given 	array Key/value pairs to be set as variables in the Contacts::add() method. Special keys include: vars - An array of input data which may include: client_id - The client ID this contact will be associated with user_id' - The user ID this contact belongs to if this contact has their own unique user record contact_type' - The type of contact contact_type_id' - The ID of the contact type if contact_type is other first_name - The first name of this contact last_name - The business title for this contact title' - The business title for this contact title'' - The sompany/organization this contact belongs to email - This contact's address address1'' - This contact's address address2'' - This contact's address line two citty' - This contact's clies country zip'' - The 2ip/postal code for this contact country'' - The 2-character ISO 3166-1 country code, required if state is given numbers' An array of phone number data	5.3
Contacts. addAfter Deprecate d: Contact s.add	A contact is added	\Blesta\Core\Ut i\Events\Obser vers\Contacts:: addAfter() Deprecated: • \Blesta\ Core\Uti \Events \Observ ers\Cont acts:: add() • EventsC ontacts Callbac k::add()	 contact_id - The ID of the contact that was created. vars - An array of input data which may include: client_id - The client ID this contact will be associated with user_id* - The user ID this contact belongs to if this contact has their own unique user record contact_type i.d* - The type of contact contact_type_id* - The ID of the contact type if contact_type is 'other' first_name - The first name of this contact last_name - The last name of this contact company* - The company/organization this contact belongs to email - This contact's address address1* - This contact's address line two city* - The 3-character ISO 3166-2 subdivision code, requires county* zip* - The zip/postal code for this contact county* - The 2-character ISO 3166-1 country code, required if state is given numbers* An array of phone number data 	void	4.1
Contacts. editBefore	A contact is updated	\Blesta\Core\Ut i/(Events\Obser vers\Contacts:: editBefore()	 contact_id - The ID of the contact that was updated. vars - An array of input data which may include: user_id* - The user ID this contact belongs to if this contact has their own unique user record contact_type* - The type of contact contact_type_id* - The ID of the contact type if contact_type is 'other' first_name - The last name of this contact tat_name - The last name of this contact tat_name - The last name of this contact tother' company' - The company/organization this contact belongs to email - This contact's address address1* - This contact's address address2* - This contact's address line two city* - The 3-character ISO 3166-2 subdivision code, requires country zip* - The zip/postal code for this contact rumbers* An array of phone number data 	 array Key/value pairs to be set as variables in the Contacts::edit() method. Special keys include: user_id* - The user ID this contact belongs to if this contact has their own unique user record contact_type*_id* - The type of contact contact_type_id* - The ID of the contact type if contact_type is 'other' first_name - The last name of this contact title* - The vouch of this contact company* - The company/organization this contact belongs to it is address? address1* - This contact's address address2* - This contact's ddress address2* - This contact's 103 3166-2 subdivision code, requires country zip* - The 2-character ISO 3166-1 country code, required if state is given numbers* An array of phone number data 	5.3

Contacts. editAfter Deprecate d: Contact s.edit	A contact is updated	\Blesta\Core\Ut iI\Events\Obser vers\Contacts:: editAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Cont acts:: edit() • EventsC ontacts Callbac k::edit()	 contact_id - The ID of the contact that was updated. vars - An array of input data which may include: user_id*- The user ID this contact belongs to if this contact has their own unique user record contact_type*- The type of contact contact_type.id* - The ID of the contact type if contact_type is other first_name - The last name of this contact user_id* - The business title for this contact title* - The business title for this contact company* - The company/organization this contact belongs to email - This contact's address address1* - This contact's address address2* - This contact's address address2* - This contact's address address2* - This contact's address country. zip* - The 3-character ISO 3166-1 southy code, requires country zip* - The zip/postal code for this contact ouser_id - The user ID this contact belongs to if state is given onumbers* An array of phone number data old _contact (since version 4.3) - An object representing the previous state of the contact contact_type - The type of contact contact_type_is_lang - Whether the contact type name is a language identifier contact_type_is_lang - Whether the contact belongs to if the contact type is other first_name - The list name of this contact company* The company/organization this contact belongs to email - This contact's address address1 - This contact's address address1 - The long of the contact type is other contact_type_is_lang - Whether the contact type is alanguage identifier contact_type_is_lang - Whether the contact type is other first_name - The list name of this contact ist_name - The list name of this contact email - This contact's address address1 - This contact's address address1 - This contact's address address1 - Th	Void	4.1
Contacts. deleteBefo re	A contact is removed	\Blesta\Core\Ut il\Events\Obser vers\Contacts:: deleteBefore()	contact_id - The ID of the contact that was removed.	void	5.3
Contacts. deleteAfter Deprecate d: Contact s.delete	A contact is removed	VBlesta/Core/Utt il/Events/Obser vers/Contacts:: deleteAfter() Deprecated: • \Blesta\ Core/Uti I/Events \Observ ers\Cont acts:: delete() • EventsC ontacts Callbac k:: delete()	 contact_id - The ID of the contact that was removed. old_contact (<i>since version 4.3</i>) - An object representing the previous state of the contact user_id - The user ID this contact belongs to if this contact has their own unique user record contact_type - The type of contact contact_type_ins_lang - Whether the contact type name is a language identifier contact_type_id - The ID of the contact type is contact contact_type_id - The ID of the contact type is contact contact_type_id - The ID of the contact type is contact contact_type_id for this contact itle - The business tile for this contact tile - The business tile for this contact email - This contact's address address1 - This contact's address address2 - This contact s address line two city - The 3-character ISO 3166-2 subdivision code, requires country zipe - The 2-character ISO 3166-1 country code, required if state is given date_added - The time stamp in UTC that the contact was added 	void	4.1
Emails. send	An email template is sent	\Blesta\Core\Ut il\Events\Obser vers\Emails:: send() Deprecated: EventsEmailsC allback::send()	 action - The action that specifies the email group being sent options - An array of options passed to Emails::send(), which may include: to_client_id - The ID of the client the message was sent to from_staff_id - The ID of the staff member the message was sent from from - The from address override from_name - The from name override reply_to - The reply to address override tags - A key/value pair of replacement tags for the email. 	array Key/value pairs to merge with tags.	3.1
Emails. sendCustor	A non- ntemplate based email is sent	\Blesta\Core\Ut iNEvents\Obser vers\Emails:: sendCustom() Deprecated: EventsEmailsC allback:: sendCustom()	 options - An array of options passed to Emails::send(), which may include: to_client_id - The ID of the client the message was sent to from_staff_id - The ID of the staff member the message was sent from reply_to - The reply to address override tags - A key/value pair of replacement tags for the email. 	array Key/value pairs to merge with tags.	3.1

EmailVerifi cations. addBefore	An email verification is added	\Blesta\Core\Ut il\Events\Obser vers\EmailVerif ications:: addBefore()	vars - An array of verification data including: contact_id - The ID of the contact to verify email - The email address to verify token - The email verification token verified - Whether or not the email it's verified redirect_url - The url to redirect after a successfully verification	void	
EmailVerifi cations. addAfter	An email verification is added	\Blesta\Core\Ut il\Events\Obser vers\EmailVerif ications:: addAfter()	verification_id - The ID of the added email verification vars - An array of verification data including: contact_id - The ID of the contact to verify email - The email address to verify token - The email verification token verified - Whether or not the email it's verified redirect_url - The url to redirect after a successfully verification	void	5.5
EmailVerifi cations. editBefore	An email verification is updated	\Blesta\Core\Ut il\Events\Obser vers\EmailVerif ications:: editBefore()	verification_id - The ID of the email verification to update vars - An array of verification data including: contact_id - The ID of the contact to verify email - The email address to verify token - The email verification token verified - Whether or not the email it's verified redirect_url - The url to redirect after a successfully verification	void	5.5
EmailVerifi cations. editAfter	An email verification is updated	\Blesta\Core\Ut il\Events\Obser vers\EmailVerif ications:: editAfter()	verification _id - The ID of the updated email verification vars - An array of verification data including: contact_id - The ID of the contact to verify e email - The email address to verify token - The email verification token verified - Whether or not the email it's verified redirect_url - The url to redirect after a successfully verification	void	5.5
EmailVerifi cations. deleteBefo re	An email verification is deleted	\Blesta\Core\Ut il\Events\Obser vers\EmailVerif ications:: deleteBefore()	verification_id - The ID of the email verification to delete	void	5.5
EmailVerifi cations. deleteAfter	An email verification is deleted	\Blesta\Core\Ut il\Events\Obser vers\EmailVerif ications:: deleteAfter()	verification_id - The ID of the deleted email verification	void	5.5
EmailVerifi cations. verifyBefore	An email verification is verified	\Blesta\Core\Ut il\Events\Obser vers\EmailVerif ications:: verifyBefore()	verification_id - The ID of the email verification to verify	void	5.5
EmailVerifi cations. verifyAfter	An email verification is verified	\Blesta\Core\Ut iI\Events\Obser vers\EmailVerif ications:: verifyAfter()	verification_id - The ID of the verified email verification	void	5.5
GatewayM anager. addBefore	A gateway is added	\Blesta\Core\Ut il\Events\Obser vers\GatewayM anager:: addBefore()	 vars - An array of input data which may include: company_id - The ID of the company the gateway belongs to class - The class name for this gateway type - The type of gateway 	array Key/value pairs to be set as variables in the GatewayManager::add() method. Special keys include: • vars - An array of input data which may include: • company_id - The ID of the company the gateway belongs to • class - The class name for this gateway • type - The type of gateway	5.3
anager. addAfter	A gateway is added	\Blesta\Core\Ut il\Events\Obser vers\GatewayM anager:: addAfter()	 gateway_id - The ID of the gateway that was added. vars - An array of input data which may include: company_id - The ID of the company the gateway belongs to class - The class name for this gateway type - The type of gateway 	void	4.1
Deprecate d: Gatewa yManager. add		Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Gat ewayMa nager:: add() • Events Gatewa yManag erCallba ck:: add()			
GatewayM anager. editBefore	A gateway is updated	\Blesta\Core\Ut i\lEvents\Obser vers\GatewayM anager:: editBefore()	 gateway_id - The ID of the gateway that was updated. vars - An array of input data which may include: name - The name of the gateway class - The class name for this gateway type - The type of gateway currencies - A numerically indexed array of accepted currencies codes (ISO 4217) meta - A keylvalue array of meta data 	array Key/value pairs to be set as variables in the GatewayManager::edit() method. Special keys include: • vars - An array of input data which may include: • name - The name of the gateway • class - The class name for this gateway • type - The type of gateway • currencies - A numerically indexed array of accepted currencies codes (ISO 4217) • meta - A key/value array of meta data	5.3

GatewayM anager. editAfter Deprecate d: Gatewa yManager. edit	A gateway is updated	\Blesta\Core\Ut il\Events\Obser vers\GatewayM anager::editAft er() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Gat ewayMa nager:: edit() • Events Gatewa yManag erCallba ck:: edit()	 gateway_id - The ID of the gateway that was updated. vars - An array of input data which may include: name - The name of the gateway class - The class name for this gateway type - The type of gateway currencies - A numerically indexed array of accepted currencies codes (ISO 4217) meta - A keylvalue array of meta data old gateway (since version 4.3) - An object representing the previous state of the gateway id - The ID of the gateway company_id - The ID of the company this gateway is installed for name - The name of the gateway class - The class name for this gateway version - The version of the gateway type - The type of gateway cursencies - A list of objects representing currencies supported by this gateway 	void	4.1
GatewayM anager. deleteBefo re	A gateway is removed	\Blesta\Core\Ut il\Events\Obser vers\GatewayM anager:: deleteBefore()	• gateway_id - The ID of the gateway that was removed.	void	5.3
GatewayM anager. deleteAfter Deprecate d: Gatewa yManager. delete	A gateway is removed	\Blesta\Core\Ut i\lEvents\Obset vers\GatewayM anager::delete After() Deprecated: • \Blesta\ Core\Uti \Events \Observ ers\Gat ewayMa nager:: delete() • Events Gatewa yManag erCallba ck:: delete()	 gateway_id - The ID of the gateway that was removed. old_gateway (since version 4.3) - An object representing the previous state of the gateway id - The ID of the gateway company_id - The ID of the company this gateway is installed for name - The name of the gateway class - The class name for this gateway version - The version of the gateway type - The type of gateway meta - A list of meta data for the gateway currencies - A list of objects representing currencies supported by this gateway 	void	4.1
Invoices. addBefore	An invoice is created	\Blesta\Core\Ut il\Events\Obser vers\Invoices:: addBefore()	 vars - An array of input data which may include: client_id - The client ID the invoice belongs to date_due - The date the invoice goes into effect date_closed - The date the invoice was closed date_closed - The date the invoice should be autodebited status - active, 'draf', 'proforma', or 'void' currency - The ISO 4217 3-character currency code of the invoice note_public - Notes visible to the client note_private - Notes visible only to staff members lines - A numerically indexed array of line item info including: term - The term for the recurring invoice ('ady', 'week', 'month', 'year') duration - The duration of the recurring invoice ('indefinitely' for forever or 'times for a set number of times) duration_time - The number of times an invoice whold recur recur_date_billed - The date the invoice darray of delivery methods 	array Key/value pairs to be set as variables in the Invoices::add() method. Special keys include: vars - An array of input data which may include: c client_id - The client ID the invoice belongs to date_due - The date the invoice goes into effect date_due - The date the invoice so due date_closed - The date the invoice so due date_closed - The date the invoice should be autodebited status - 'active','draft','proforma', or 'void' currency - The ISO 4217 3-character currency code of the invoice note_private - Notes visible to the client note_private - Notes visible only to staff members lines - A numerically indexed array of line item info including: term - The term for the recurring invoice period - The part of the recurring invoice ('day', 'week', month', 'year') duration - The duration of the recurring invoice ('indefinitely' for forever or 'times' for a set number of times) duration_time - The date the next invoice will be created duration_time - The date the next invoice will be created duration_time - The date the next invoice should recur	5.3
Invoices. addAfter Deprecate d: Invoices .add	An invoice is created	\Blesta\Core\Ut il\Events\Obser vers\Invoices:: addAfter() Deprecated: • \Blesta\ Core\Uti I\Events	 invoice_id - The ID of the invoice created 	void	3.1
		VObserv ers\Invoi ces:: add() • EventsI nvoices Callbac k::add()			

Invoices. editBefore	An invoice is updated	\Blesta\Core\Ut i\Events\Obser vers\Invoices:: editBefore()	 invoice_id - The ID of the invoice updated vars - An array of input data which may include: client_id - The client ID the invoice goes into effect date_billed - The date the invoice goes into effect date_due - The date the invoice sould be autodebited date_closed - The date the invoice should be autodebited status - active', 'draft', 'proforma', or 'void' currency - The ISO 4217 3-character currency code of the invoice note_public - Notes visible only to staff members lines - A numerically indexed array of line item info including: term - The term for the recurring invoice period - The period for the recurring invoice ('day', 'week', 'month', 'year') duration - The duration of the recurring invoice ('indefinitely' for forever or 'times' for a set number of times) duration, time - The date the next invoice will be created delivery - A numerically indexed array of delivery methods 	array Key/value pairs to be set as variables in the Invoices::edit() method. Special keys include: • vars - An array of input data which may include: • client, id - The client ID the invoice belongs to • date_billed - The date the invoice goes into effect • date_due - The date the invoice should be autodebited • date_closed - The date the invoice should be autodebited • date_sautodebit - The date the invoice should be autodebited • status - 'active','draft','proforma', or 'void' • currency - The ISO 4217 3-character currency code of the invoice • note_public - Notes visible only to staff members • lines - A numerically indexed array of line item info including: • term - The term for the recurring invoice as an integer 1-65535, if blank will not be considered for a recurring invoice • period - The partod for the recurring invoice ('day','week', month', 'year') • duration - The duration of the recurring invoice (indefinitely' for forever or 'times' for a set number of times an invoice should recur • ceur_date_billed - The date the next invoice will be created • delivery - A numerically indexed array of delivery methods	5.3
Invoices. editAlter Deprecate d: Invoices .edit	An invoice is updated	\Blesta\Core\Ut i\Events\Obser vers\Invoices:: editAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Invoi ces:: edit() • Eventsl nvoices Callbac k::edit()	 invoice_id - The ID of the invoice updated old_invoice (since version 4.3) - An object representing the previous state of the invoice id - The ID of the invoice id_ratue - The ID for display client_id - The ID for display client_id - The date the invoice belongs to date_due - The date the invoice goes into effect date_due - The date the invoice was closed date_autodebit - The date the invoice should be autodebited autodebit - The subtotal of the invoice status - The subtotal of the invoice status - The subtotal of the invoice paid - The subtotal of the invoice paid - The amount the user has already paid on this invoice previous_due - The date the invoice total - The total of the invoice client_id - The subtotal of the invoice paid - The amount the user has already paid on this invoice previous_due - The Subtotal or the invoice currency - The ISO 4217 3-character currency code of the invoice note_private - Notes visible to the client note_private - Notes visible only to staff members line_items - A list of invoice liters delivery - The dailvery type for this invoice tax_subtotal - The total of al taxes on this invoice 	void	3.1
Invoices. setClosed Before	An invoice is closed	\Blesta\Core\Ut il\Events\Obser vers\Invoices:: setClosedBefor e()	invoice_id - The ID of the invoice closed	void	5.3
Invoices. setClosed After Deprecate d: Invoices .setClosed	An invoice is closed	\Blesta\Core\Ut i\Events\Obser vers\Invoices:: setClosedAfter() Deprecated: • \Blesta\ Core\Uti I\Events \Observ ers\Invoi ces:: setClos ed() • EventsI nvoices Callbac k:: setClos ed()	 invoice_id - The ID of the invoice closed old_invoice (since version 4.3) - An object representing the previous state of the invoice id - The ID of the invoice id_yatue - The format that the ID value should be displayed in client_id - The format that the ID value should be displayed in date_billed - The dient ID the invoice belongs to date_due - The date the invoice goes into effect date_due - The date the invoice was closed date_atodebit - The date the invoice should be autodebited autodebit - The status of the invoice should be autodebited subtotal - The status of the invoice paid - The subtotal of the invoice paid - The amount the user has already paid on this invoice previous_due - The date the the dient currency - The ISO 4217 3-character currency code of the invoice note_public - Notes visible to the client note_private - Notes visible to the items diever - The date date for this invoice mat_ and in format data for this invoice tas_subtotal - The data to finding tases on this invoice 	void	3.1
ModuleMa nager. addBefore	A module is installed	\Blesta\Core\Ut i\Events\Obser vers\ModuleMa nager:: addBefore()	 vars - An array of input data which may include: company_id The ID of the company the module belongs to class - The class name for this module 	array Key/value pairs to be set as variables in the ModuleManager::add() method. Special keys include: • vars - An array of input data which may include: • company_id - The ID of the company the module belongs to • class - The class name for this module	5.3

ModuleMa nager. addAfter	A module is installed	\Blesta\Core\Ut il\Events\Obser vers\ModuleMa nager:: addAfter()	 module_id - The ID of the module that was added. vars - An array of input data which may include: company_id - The ID of the company the module belongs to class - The class name for this module 	void	4.1
Deprecate					
d: ModuleMa nager.add		Deprecated:			
nager.auu		 \Blesta\ Core\Uti \LEvents \Observ ers\Mod uleMan ager:: add() Events Module Manage rCallbac k::add() 			
ModuleMa nager. deleteBefo re	A module is uninstalled	\Blesta\Core\Ut il\Events\Obser vers\ModuleMa nager:: deleteBefore()	 module_id - The ID of the module that was removed. 	void	5.3
ModuleMa nager. deleteAfter Deprecate d: Module Manager. delete	A module is uninstalled	\Blesta\Core\Ut ii\Events\Obser vers\ModuleMa nager:: deleteAfter() Deprecated: • \Blesta\ Core\Uti iEvents \Observ ers\Mod uleMan ager:: delete() • Events Module Manage rCallbac k:: delete()	 module_id - The ID of the module that was removed. old_module (<i>since version 4.3</i>) - An object representing the previous state of the module id - The ID of the module company_id - Company ID to which this module is attached name - The name of the module class - The class name for this module version - The current version of this module meta - The meta data associated with this module orws - The rows belonging to this module groups - The module row groups 	void	4.1
Navigation getSearch Options	Staff search options are displayed	\Blesta\Core\Ut il\Events\Dbser vers\Navigation :: getSearchOptio ns() Deprecated: EventsNavigati onCallback:: getSearchOptio ns()	 options - A key/value pair of search options where each key is the URI to redirect search queries to and the value is the name of the search option. When implemented, the event handler should modify the options parameter using EventObject::setParams(). base_uri - The base URI for the currently logged in user. 	void	3.0
Packages. addBefore	A package is created	\Blesta\Core\Ut i\Events\Obser vers\Packages: :addBefore()	 vars - An array of input data which may include: module_id - The ID of the module this package belongs to name - The name of the package description - The description of the package description - The description of the package description_ithml - The HTML description of the package, if any module_row - The module group this package belongs to module_group - The module group this package belongs to taxable - Whether or not this package is taxable single_term - Whether or not services derived from this package should be canceled at the end of term status - The status of this package belongs to prorata_day - The prorated day of the month prorata_cutoff - The day of the month pro rata should cut off email_content - A numerically indexed array of package group assignments option_groups - A numerically indexed array of package group assignments (any other package field data passed to the module) 	array Key/value pairs to be set as variables in the Packages::add() method. Special keys include: vars - An array of input data which may include: module_id - The ID of the module this package belongs to name - The name of the package description - The description of the package description_html - The HTML description of the package description_html - The HTML description of the package description_or - The module row this package belongs to module_group - The module group this package belongs to module_group - The module group this package belongs to taxable - Whether or not this package is taxable single_term - Whether or not services derived from this package should be canceled at the end of term status - The protate day of the month prorata_day - The protated day of the month prorata_day - The protated dary of pricing info groups - A numerically indexed array of package group assignments option_groups - A numerically indexed array of package option_	5.3

Packages. addAfter Deprecate d: Packag es.add	A package is created	\Blesta\Core\Uti i/Levents\Obser vers\Packages: :addAfter() Deprecated: • \Blesta\ Core\Uti I/Levents \Observ ers\Pac kages: add() • EventsP ackages Callbac k::add()	 package_id - The ID of the package that was created. vars - An array of input data which may include: module_id - The ID of the module this package belongs to name - The name of the package description - The description of the package description - The description of the package qty - The maximum quantity available in this package, if any module_row - The module group this package belongs to module_group - The module group this package belongs to module_row - The module group this package belongs to module_crow - The module group this package belongs to taxable - Whether or not this package is taxable single_term - Whether or not services derived from this package should be canceled at the end of term status - The status of this package to the month prorata_day - The prorated day of the month prorata_couteff - The day of the month pricing - A numerically indexed array of package group assignments option_groups - A numerically indexed array of package 	void	4.1
Packages. editBefore	A package is updated	\Blesta\Core\Ut ii\Events\Obser vers\Packages: :editBefore()	 vars - An array of input data which may include: module_id' - The ID of the module this package belongs to name - The name of the package description[*] - The description of the package description[*] - The description of the package qty' - The maximum quantity available in this package, if any client_qty' - The maximum quantity available per client in this package, if any module_group' - The module row this package belongs to module_group' - The module group this package belongs to stable' - Whether or not this package is taxable single_term' - Whether or not services derived from this package belongs to status' - The status of this package company_id - The ID of the company this package belongs to prorata_cutoff' - The day of the month prorata_cutoff' - The day of the month pro rata should out off email_content - A numerically indexed array of package group assignments option_groups' - A numerically indexed array of package group assignments (any other package field data passed to the module) 	 array Key/value pairs to be set as variables in the Packages::edit() method. Special keys include: wars - An array of input data which may include: module_id* - The ID of the module this package belongs to name - The name of the package description* - The description of the package description_html* - The HTML description of the package qty* - The maximum quantity available in this package, if any client_qty* - The module row this package belongs to module_row* - The module row this package belongs to module_row* - The module group this package belongs to module_group* - The module group this package belongs to taxable* - Whether or not services derived from this package should be canceled at the end of term status* - The status of this package company_id - The ID of the company this package belongs to prorata_day* - The prorated day of the month prorata_cutoff* - The day of the month pro rata should cut off email_content - A numerically indexed array of package group assignments option_groups* - A numerically indexed array of package 	5.3
Packages. editAfter Deprecate d: Packag es.edit	A package is updated	\Blesta\Core\Ut i\Events\Obser vers\Packages: :editAfter() Deprecated: • \Blesta\ Core\Uti NEvents \Observ ers\Pac kages:: edit() • EventsP ackages Callbac k::edit()	 package_id - The ID of the package that was updated. vars - An array of input data which may include: module_id' - The ID of the module this package belongs to name - The name of the package description - The maximum quantity available in this package, if any client_dy' - The maximum quantity available in this package, if any module_group' - The module row this package belongs to module_group' - The module row this package belongs to module_group' - The module group this package belongs to taxable' - Whether or not services derived from this package should be canceled at the end of term status' - The rorated day of the month prorata_day' - The prorated day of the month prorata_day' - The prorated day of the month prorata_duvi - The rorated day of the month prorata_cutoff' - The day of the month prorat should cut off email_content - A numerically indexed array of package group assignments option_groups' - A numerically indexed array of package option group assignments option_groups - A numerically indexed array of package belongs to id_romat - The lo The morated hay of the module) old_package (since version 4.3) - An object representing the previous state of the package id_ormat - The format with which the ID value will be displayed id_value - The ID the the Matkage id_code - The formative this package belongs to name - The name of the package description - The HTML description of the package. id_code - The formative this package belongs to module_group - The module group this package. id_code - The formative the package description - The description of the package. id_code - The formative this beckage description - The description of the package. id_code - The formative this package belongs to module_group -	void	4.1

Packages. deleteBefo re	A package is removed	\Blesta\Core\Ut il\Events\Obser vers\Packages: :deleteBefore()	package_id - The ID of the package that was removed.	void	5.3
Packages. deleteAfter Deprecate d: Packag es.delete	A package is removed	 Jelestal-Core/Uti il/Events/Obser vers/Packages: :deleteAfter() Deprecated: VBlestal- Core/Uti ILEvents VObserv ers/Pac kages: delete() EventsP ackages Callbac k:: delete() 	 package_id - The ID of the package that was removed. old_package (since version 4.3) - An object representing the previous state of the package id - The ID of the package id _ format - The format with which the ID value will be displayed id_code - The formatted ID value module_id - The ID that will be displayed id_code - The formatted ID value module_id - The ID the module this package belongs to name - The name of the package description - The description of the package description - The HTML description of the package, if any module_group - The module row this package belongs to module_group - The module row this package belongs to module_group - The module group this package belongs to taxable - Whether or not this package belongs to status - The status of this package company_id - The ID of the company this package belongs to prorata_day - The prorated day of the month prorata_cutoff - The day of the month prorata_day - The module day of the month pricing - A numerically indexed array of pricing info meta - The meta data for this package option_groups - A numerically indexed array of package group assignments 	void	4.1
Report. clientData	The Client Data Portability report is run	\Blesta\Core\Ut il\Events\Obser vers\Report:: clientData() Deprecated: EventsReportC allback:: clientData()	 client_id - The ID of the client for which this report is being generated 	array A list of data to add to the report	4.3
Services. addBetore	A service is added	\Blesta\Core\Ut in\Events\Dbser vers\Services:: addBefore()	 vars - An array of input data which may include: parent_service_id* - The ID of the service this service is a child of package_group_id* - The ID of the package group this service was added from pricing_id - The package pricing schedule ID for this service client_id - The ID of the client this service belongs to module_row* - The module row to add the service under coupo_id* - The ID of the coupon used for this service qty* - The quanty consumed by this service. override_price* - The price to set for this service, overriding the package pricing value for the selected term override_price* - The date this service is added date_renews* - The date the service renews date_suspended* - The date the service was last canceled date_suspended* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service the was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suched date_canceled* - The date the service was last suched date_canceled* - The date the service the was last suched date_canceled* - The d	 array Key/Value pairs to be set as variables in the Services::add() method. Special keys include: vars - An array of input data which may include: parent_service_id* - The ID of the service this service is a child of package_group_id* - The ID of the package group this service was added from pricing_id* - The nockage pricing schedule ID for this service client_id - The Dof the client this service belongs to module_row* - The module row to add the service under coupon_id* - The ID of the coupon used for this service qty* - The quanity consumed by this service override_price* - The price to set for this service, overriding the package pricing value for the selected term override_currency* - The date the service is added date_renews* - The date the service is added date_renews* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - The date the service was last suspended date_canceled* - Whether or not to use the module for this request prorate - Whether or not to prorate price chages configoptions* - An array of key/value pairs of package options where the key is the package option The added and the value is the option value (any other service lide data passed to the module) packages - An array of packages ordered along with this service to determine if the given coupon may be applied 	5.3

				1	
Services. addAfter Deprecate d: Service s.add	A service is added	\Blesta\Core\Ut i\Tevents\Observ vers\Services:: addAfter() Deprecated: • \Blesta\ Core\Uti I\Tevents \Observ ers\Services callbac k::add()	 service_id - The ID of the service added vars - An array of input data which may include: parent_service_id* - The ID of the service this service is a child of package_group_id* - The ID of the package group this service was added from pricing_id - The package pricing schedule ID for this service client_id - The package pricing schedule ID for this service client_id - The package pricing schedule ID for this service client_id - The package pricing schedule ID for this service coupon_id* - The package pricing schedule ID for this service oupon_id* - The Dot the coupon used for this service override_price* - The price to set for this service, overriding the package pricing value for the selected term override_currency* - The date this service is added date_renews* - The date the service was last canceled date_suspended* - The date the service was last suspended date_canceled* - The date the service was last canceled use_module* - The date the service was last canceled use_module* - The date the service was last canceled gate - Suspende* - The date the service was last canceled use_module* - Whether or not to use the module for this request prorate - Whether or not to prorate price changes configoptions* - An array of keylvalue pairs of package options where the key is the package option ID and the value is the option value (any other service field data passed to the module) 	void	3.4
Services. editBefore	A service is edited	\Blesta\Core\Ut i\Events\Obser vers\Services:: editBefore()	 service_id - The ID of the service edited vars - An array of input data which may include: parent_service_id* - The ID of the service this service is a child of package_group_id* - The ID of the package group this service client_id* - The ID of the client this service belongs to client_id* - The ID of the client this service belongs to module_row* - The module row to add the service under coupon_id* - The ID of the client this service outer of the quanty consumed by this service override_price* - The price to set for this service, overriding the package pricing value for the selected term override_currency* - The currency to set for this service, overriding the package pricing value for the selected term override_adde* - The date the service renews date_adde* - The date the service was last canceled date_anded* - The date the service was last canceled date_anceled* - The date the service was last canceled date_canceled* - The date the service was last canceled date_canceled* - The date the service was last canceled date_canceled* - The date the service was last canceled gerorate - Whether or not to prorate price changes configoptions* - An array of key/value pairs of package options where the key is the package option ID and the value is the option value (any other service field data passed to the module of whether or not it should internally use its module connection to process the request, however in some instances it may be necessary to prevent the module from being notified of the request. 	 array Key/value pairs to be set as variables in the Services::edit() method. Special keys include: vars - An array of input data which may include: parent_service_id² - The ID of the service this service is a child of package group_id² - The ID of the package group this service was added from pricing_id - The package pricing schedule ID for this service client, id - The ID of the client this service belongs to module_row² - The module row to add the service under coupon_id² - The ID of the coupon used for this service qty² - The quanty consumed by this service, overriding the package pricing value for the selected term override_price² - The price to set for this service, overriding the package pricing value for the selected term status² - The status of this service is added date_renews³ - The date the service mas last suspended date_last_renewed⁴ - The date the service was last canceled use_module² - Whether or not to use the module for this request prorate - Whether or not to prorate price changes configoptions⁴ - An array of key/value pairs of package options where the key is the package option ID and the value is the option value (any other services ind data passed to the module of whether or not it should intermally use its module connection to process the request, however in some instances it may be necessary to prevent the module from being notified of the request. 	5.3

Services. editAfter	A service is edited	\Blesta\Core\Ut il\Events\Obser	 service_id - The ID of the service edited 	void	3.4
		vers\Services:: editAfter()	 vars - An array of input data which may include: parent_service_id* - The ID of the service this service is a 		
Deprecate			child of o package_group_id* - The ID of the package group this service		
I: Service .edit		Deprecated:	was added from • pricing_id - The package pricing schedule ID for this service • list in the service is a service of the service of the service is a service of the serv		
			 client_id - The ID of the client this service belongs to module row* - The module row to add the service under 		
		 \Blesta\ Core\Uti 	 coupon_id* - The ID of the coupon used for this service 		
		I\Events	 qty* - The quanity consumed by this service override_price* - The price to set for this service, overriding 		
		\Observ ers\Serv	override_price - The price to set for this service, overriding the package pricing value for the selected term		
		ices::	 override_currency* - The currency to set for this service, 		
		edit()	 overriding the package pricing value for the selected term status* - The status of this service 		
		 EventsS ervices 	 date_added* - The date this service is added 		
		Callbac	 date_renews* - The date the service renews 		
		k::edit()	 date_last_renewed* - The date the service last renewed date_suspended* - The date the service was last suspended 		
			 date_canceled* - The date the service was last canceled 		
			 use_module* - Whether or not to use the module for this request 		
			 prorate - Whether or not to prorate price changes 		
			 configoptions* - An array of key/value pairs of package 		
			options where the key is the package option ID and the value is the option value		
			 (any other service field data passed to the module) 		
			 old_service (since version 4.3) - An object representing the previous 		
			state of the service o id - The ID of the service		
			 parent_service_id - The ID of the service this service is a child of 		
			 package_group_id - The ID of the package group this service was added from 		
			 id_format - The format with which the ID value will be displayed 		
			 id_value - The ID that will be displayed id_as da_ The formative ID value 		
			 id_code - The formatted ID value pricing_id - The package pricing schedule ID for this service 		
			 client_id - The ID of the client this service belongs to 		
			 module_row_id - The ID of the module row this service was assigned to 		
			 coupon_id - The ID of the coupon used for this service 		
			 qty - The quanity consumed by this service 		
			 override_price - The price to set for this service, overriding the package pricing value for the selected term 		
			 override_currency - The currency to set for this service, 		
			overriding the package pricing value for the selected term		
			 status - The status of this service suspension_reason - The reason given (if any) for the last 		
			time this service was suspended		
			 date_added - The date this service is added date_renews - The date the service renews 		
			 date_last_renewed - The date the service last renewed 		
			 date_suspended - The date the service was last suspended 		
			 date_canceled - The date the service was last canceled fields - A list of service fields 		
			 package_pricing - An object representing the pricing scheme 		
			applied to this service		
			 package - An object representing the package this service was create from 		
			 options - A list of service options 		
			 name - The name of the service which is derived either from the package or the module this servie belongs to 		
Services.	A service is	\Blesta\Core\Ut		array	5.3
ancelBef re	scheduled to be canceled,	il\Events\Obser vers\Services::	 service_id - The ID of the service canceled vars - An array of input data which may include: 	Kay/yalua paira ta ba aat aa yariablaa in the Can inconcense!() and the d	
	or is canceled	cancelBefore()	 date_canceled - The date this service is scheduled to be 	Key/value pairs to be set as variables in the Services::cancel() method. Special keys include:	
			canceled		
			 status - The status of the service (i.e. 'canceled') use_module - Whether or not to use the module for this 	• vars - An array of input data which may include:	
			request	 date_canceled - The date this service is scheduled to be canceled 	
				 status - The status of the service (i.e. 'canceled') 	
				 use_module - Whether or not to use the module for this request 	

Services. cancelAfter	A service is scheduled to be canceled, or is canceled	\Blesta\Core\Ut il\Events\Obser vers\Services:: cancelAfter()	 service_id - The ID of the service canceled vars - An array of input data which may include: date_canceled - The date this service is scheduled to be canceled 	void	3.5
Deprecate d: Service s.cancel		Deprecated: • \Blesta\ Core\Uti NEvents cancel() • EventsS ervices callbac k: cancel()	 status - The status of the service (i.e. 'canceled') use_module - Whether or not to use the module for this request old_service (since version 4.3) - An object representing the previous state of the service id - The ID of the service parent_service_id - The ID of the service this service is a child of package_group_id - The ID of the package group this service was added from id_ormat - The format with which the ID value will be displayed id_orde - The format with which the ID value will be displayed id_orde - The format with which the ID value will be displayed id_code - The formatted ID value pricing_id - The ID of the coupon used for this service (client, id - The ID of the coupon used for this service) coupon_id - The ID of the coupon used for this service override_price - The price to set for this service, overriding the package pricing value for the selected term override_currency - The currency to set for this service, overriding the package pricing value for the selected term status - The status of this service is added date_renews - The date the service renews date_added - The date the service was last suspended date_suspended - The date the service was last suspended date_service - The date the service was last suspended date_service - The date the service was last suspended date_service - The date the service was last suspended date_service - The date the service was last suspended date_service - The other the service was last suspended date_last_renewed - The date the service was last suspended date_last_renewed - The date the service was last suspended date_last_renewed - The date the service was last suspended date_last_renewed - The date the service was last suspended date_last_renewed - The date the service was last suspended date_last_rene		
Services. suspendB efore	A service is suspended	\Blesta\Core\Ut i\[Events\\Obser vers\Services:: suspendBefore ()	 service_id - The ID of the service suspended vars - An array of input data which may include: date_suspended The date the service was suspended status - The status of the service (i.e. suspended) use_module - Whether or not to use the module for this request staff_id - The ID of the staff member that issued the service suspension 	array Keylvalue pairs to be set as variables in the Services::suspend() method. Special keys include: • vars - An array of input data which may include: • date_suspended The date the service (i.e. 'suspended') • status - The status of the service (i.e. 'suspended') • use_module - Whether or not to use the module for this request • statf_Id - The ID of the staff member that issued the service suspension	5.3
Services. suspendAf ter Deprecate d: Service s.suspend	A service is suspended	\Blesta\Core\Ut i\Events\Obser vers\Services:: suspendAfter() Deprecated: • \Blesta\ Core\Uti NEvents \Observ ers\Serv ices:: suspend () • EventsS ervices Callbac k:: suspend ()	 service_id - The ID of the service suspended vars - An array of input data which may include: date_suspended The date the service was suspended status - The status of the service (i.e. 'suspended') use_module - Whether or not to use the module for this request statf_id - The ID of the staff member that issued the service suspension old service (since version 4.3) - An object representing the previous state of the service id - The ID of the service id - The ID of the service parent_service_id - The ID of the package group this service was added from id_format - The format with which the ID value will be displayed id_code - The ID of the coupon used for this service cilent_id - The ID of the coupon used for this service cilent_id - The ID of the coupon used for this service cilent_id - The ID of the coupon used for this service cilent_id - The ID of the coupon used for this service was assigned to coupon_id - The ID of the service to this service, overriding the package pricing value for the selected term status - The status of this service override_currency - The currency to set for this service, overriding the package pricing value for the selected term status - The status of this service is added date_ranews - The date the service is added date_suspended - The date the service is added date_suspended - The date the service sate suspended date_suspended - The date the service was last canceled fields - A list of service options package pricing - An object representing the pricing scheme applied to this service 	void	3.5

				1	
Services. unsuspen dBefore	A service is unsuspended	\Blesta\Core\Ut i/Levents\Obser vers\Services:: unsuspendBefo re()	 service_id - The ID of the service unsuspended vars - An array of input data which may include: date_suspended The date the service was suspended (i.e. null) status - The status of the service (i.e. 'active') use_module - Whether or not to use the module for this request staff_id - The ID of the staff member that issued the service unsuspension 	array Key/value pairs to be set as variables in the Services::unsuspend() method. Special keys include: • vars - An array of input data which may include: • date_suspended The date the service was suspended (i.e. null) • status - The status of the service (i.e. 'active') • use_module - Whether or not to use the module for this request • staff_id - The ID of the staff member that issued the service unsuspension	5.3
Services. unsuspen dAfter Deprecate d: Service s. unsuspend	A service is unsuspended	\Blesta\Core\Ut iKEvents\Obser vers\Services:: unsuspendAfte r() Deprecated: • \Blesta\ Core\Uti NEvents \Observ ers\Serv ices:: unsuspe nd() • EventsS ervices Callbac K:: unsuspe nd()	 service_id - The ID of the service unsuspended vars - An array of input data which may include: date_suspended The date the service was suspended (i.e. null) status - The status of the service (i.e. 'active') use_module - Whether or not to use the module for this request staff_id - The ID of the staff member that issued the service unsuspension old service (since version 4.3) - An object representing the previous state of the service id - The ID of the service this service is a child of parent_service_id - The ID of the package group this service was added from id _ormat - The format with which the ID value will be displayed id_code - The ID the clent this service belongs to clent_id - The ID of the coupon used for this service or clent_id - The ID of the package proup id - The ID of the service belongs to id_code - The format with which the ID value will be displayed id_code - The formative ID value pricing_id - The ID of the coupon used for this service was assigned to coupon_id - The ID of the coupon used for this service (atty - The quanity consumed by this service) override_price - The price to set for this service, overriding the package pricing value for the selected term override_orterecy - The reason given (if any) for the last time this service was suspended date_satded - The date the service was last canceled date_anded - The date the service was last canceled fields - A list of service fields. package_pricing - An object representing the pricing scheme applied to this service was last canceled fields - A list of service fields. 	void	3.5
Staff. addBefore	A staff is created	\Blesta\Core\Ut i\Events\Obser vers\Staff:: addBefore()	 vars - An array of input data which may include: user_id - The user ID belonging to this staff member first_name - The first name of this staff member last_name - The last name of this staff member email - The email address of this staff member email _mobile - The mobile email address of this staff member status* - The status of this staff member groups - An array of staff group IDs this staff member belongs to 	array Key/value pairs to be set as variables in the Staff::add() method. Special keys include: • vars - An array of input data which may include: • user_id - The user ID belonging to this staff member • first_name - The first name of this staff member • email - The email address of this staff member • email_mobile - The status of this staff member • status* - The status of this staff member • groups - An array of staff group IDs this staff member belongs to	5.3
Staff. addAfter Deprecate d: Staff. add	A staff is created	\Blesta\Core\Ut i\lEvents\Obser vers\Staff:: addAfter() Deprecated: • \Blesta\ Core\Uti \LEvents \Observ ers\StaffCallb ack:: add()	 staff_id - The ID of the staff that was created. vars - An array of input data which may include: user.id - The user ID belonging to this staff member first, name - The first name of this staff member last_name - The namil address of this staff member email - The email address of this staff member email_mobile - The mobile email address of this staff member status' - The status of this staff member groups - An array of staff group IDs this staff member belongs to 	void	4.1

Staff. editBefore	A staff is updated	\Blesta\Core\Ut ilEvents\Obser vers\Staff: editBefore()	 staff_id - The ID of the staff that was updated. vars - An array of input data which may include: user_id - The user ID belonging to this staff member first_name - The first name of this staff member last_name - The last name of this staff member email - The email address of this staff member email_mobile - The mobile email address of this staff member groups - An array of staff group IDs this staff member belongs to 	array Key/value pairs to be set as variables in the Staff::edit() method. Special keys include: • vars - An array of input data which may include: • user_id - The user ID belonging to this staff member • first_name - The first name of this staff member • email - The email address of this staff member • email - The status of this staff member • email _mobile - The mobile email address of this staff member • status* - The status of this staff member • groups - An array of staff group IDs this staff member belongs to	5.3
Staff. editAfter Deprecate d: Staff. edit	A staff is updated	\Blesta\Core\Ut ilEvents\Obser vers\Staff:: editAfter() Deprecated: • \Blesta\ Core\Uti ILEvents \Observ ers\Staff :::edit() • EventsS taffCallb ack:: edit()	 staff_id - The ID of the staff that was updated. vars - An array of input data which may include: user_id - The user ID belonging to this staff member first_name - The first name of this staff member email - The email address of this staff member email - The status of this staff member groups - An array of staff group IDs this staff member id - The UD of this staff member groups - An array of staff group IDs this staff member id - The ID of this staff member id - The ID of this staff member id - The ID of this staff member if staff (since version 4.3) - An object representing the previous state of the staff member id - The ID of this staff member if at - The ID of this staff member if at _ The user ID belonging to this staff member if at _ name - The last name of this staff member if at _ name - The last name of this staff member is tatus - The status of this staff member user_id - The user ID belonging to this staff member is tatus - The status of this staff member is tatus - The status of this staff member userame - The user name of this staff member is being used for this staff member two_factor_mode - Whether and how two factor authentication is being used for this staff member two_factor_pin - The two factor key (if any) for this staff member two_factor_key - The two factor key (if any) for this staff member is being used for this staff member staff member two_factor_key - The two factor key (if any) for this staff member setting user An array of staff groups this staff member belongs to setting user A list of staff settings notices - A list of notices assigned to this staff member 	void	4.1
Transactio ns. addBefore	A transaction is created	\Blesta\Core\Ut ilEvents\Obser vers\Transactio ns::addBefore()	 vars - An array of input data which may include: id - The ID of this transaction client_id - The ID of the client this transaction was applied for amount - The amount this transaction was for currency - The currency of this transaction type - The transaction type (c, ach, other) transaction_type_id - The transaction type ID (if any) account_id - The ID of the gatewat cocount (if any) associated with this transaction gateway_id - The ID of the gateway this transaction was made through gateway_name - The name of the gateway this transaction was made through gateway_type - The type of gateway this transaction was made through gateway_cocods transaction_id - The gateway supplied transaction ID parent_transaction_id - The gateway supplied parent transaction ID status - The status of this transaction date_added - The date this transaction was received 	array Key/value pairs to be set as variables in the Transactions::add() method. Special keys include: • vars - An array of input data which may include: • id - The ID of this transaction • client_id - The ID of the client this transaction was applied for • amount - The amount his transaction was for • currency - The currency of this transaction • type - The transaction type (c, ach, other) • transaction.type_id - The ID of the payment account (if any) • account_id - The ID of the gateway this transaction was made through • gateway_id - The ID of the gateway this transaction was made through • gateway_name - The name of the gateway this transaction was made through • gateway_tope - The type of gateway this transaction was made through • reference_id - The gateway supplied transaction ID • parent_transaction_id - The gateway supplied parent transaction ID • status - The status of this transaction was received	5.3
Transactio ns. addAfter Deprecate d: Transac tions.add	A transaction is created	\Biesta\Core\Ut ilkEvents\Observers\Transactions::addAfter() Deprecated: \Biesta\Core\Uti \Core\Uti IkEvents \Observers\Transactions ::add() EventsT add()	transaction_id - The ID of the transaction created	void	3.1

Transfer	A transcriber				5.0
Transactio ns. editBefore	A transaction is updated	\Blesta\Core\Ut il\Events\Obser vers\Transactio ns::editBefore()	 transaction_id - The ID of the transaction updated staff_id - The ID of the staff member that made the edit for logging purposes vars - An array of input data which may include: id - The ID of this transaction client_id - The ID of the client this transaction was applied for amount - The amount this transaction was for currency - The currency of this transaction type ID (if any) transaction_type_id - The ID of the payment account (if any) account_id - The ID of the gateway this transaction was made through gateway_id - The ID of the gateway this transaction was made through gateway_name - The name of the gateway this transaction was made through (merchant or non-merchant) reference_id - The gateway supplied transaction ID parent_transaction_id - The gateway supplied parent transaction ID status - The status of this transaction 	array Key/value pairs to be set as variables in the Transactions::edit() method. Special keys include: vars - An array of input data which may include: 	5.3
Transactio ns. editAfter Deprecate d: Transac tions.edit	A transaction is updated	\Blesta\Core\Ut il\Events\Obser vers\Transactio ns::editAfter() Deprecated: • \Blesta\ Core\Uti \Events \Observ ers\Tran sactions ::edit() • EventsT ransacti onsCall back:: edit()	 transaction_id - The ID of the transaction updated old_transaction (since version 4.3) - An object representing the previous state of the transaction id - The ID of this transaction client_id - The ID of the client this transaction was applied for amount - The amount this transaction was for currency - The currency of this transaction type (c), ach, other) transaction_type_id - The transaction type ID (if any) account_id - The ID of the gateway this transaction was made through gateway_id - The ID of the gateway this transaction was made through gateway_type - The type of gateway this transaction was made through (merchant or non-merchant) gateway_type - The type of gateway this transaction was made through (merchant or non-merchant) gateway records transaction_id - The gateway supplied transaction ID parent_transaction_id - The gateway supplied parent transaction ID status - The status of this transaction date_added - The date this transaction 	void	3.1
Users. delete	A user is deleted	\Blesta\Core\Ut illEvents\Obser vers\Users:: delete() Deprecated: EventsUsersCa Ilback::delete()	 user_id - The ID of the user being deleted old_user - An object representing the previous state of the user id - The ID of the user username - The username for this user two_factor_mode - The kind of two factor authentication being used by this user date_added - The date in UTC that this user was added 	void	4.3
Users. login	A user logs in	\Blesta\Core\Ut i\Events\Obser vers\Users:: login() Deprecated: EventsUsersCa Ilback::login()	 user_id - The ID of the user that successfully logged in 	void	3.1
Users. logout	A user logs out	\Blesta\Core\Ut i\Events\Obser vers\Users:: logout() Deprecated: EventsUsersCa Ilback::logout()	 user_id - The ID of the user attempting to log out 	void	3.1

* This field may not be included in the data since it is an optional parameter to submit to the function that calls this event

Working with Events

Each event handler that is invoked when the event is triggered is passed a \Blesta\Core\Util\Events\Common\EventInterface (previously an EventObject). An EventObject will still be passed to plugins for backward compatibility, but this is deprecated behavior.

You can modify the parameters or return value of this event object and the modified event will be passed along to each subsequent handler, and finally returned to the trigger.

To fetch parameters from the \Blesta\Core\Util\Events\Common\EventInterface, or EventObject, invoke the getParams() method. Similarly, to set parameters use the setParams() method.

To set the return value from the \Blesta\Core\Util\Events\Common\EventInterface, or EventObject, invoke the setReturnVal() method. Similarly, to fetch the return value use the getReturnVal() method.