

Grouper ESB Connector documentation

The purpose of this connector is to enable Grouper to interface with an ESB in order to send and receive individual events as changes occur. It is included in Grouper 1.6 and is currently experimental. This means that, although it is in use in a production environment, it has not seen sufficient use to be considered stable. It hooks into the changelog consumer and is not a general import/export tool, supporting a limited number of operations. It is deliberately lightweight and if functionality you require is not available you may wish to consider using the Web Service instead.

The connector is intended to interface with an ESB, but anything that can receive and process events packages as JSON strings send over HTTP(S) or XMPP can be used.

Outgoing

All events which can be notified to an event log consumer are supported. Single events are loaded into an instance of the `EsbEvent` bean, which is added to an array in an instance of the `EsbEvents` bean. The `EsbEvents` class is transformed into a JSON string and dispatched. The transformation includes the transformation of the `EsbEvent` beans, and as this occurs properties with null values are ignored so that they do not appear in the JSON string. More information on the [outgoing beans](#) is available.

In a future release it will be possible to send multiple events as a single JSON string, but only one is supported for now as it makes integration debugging easier.

Incoming

Membership add/deletes for a subject are supported. A listener can be set up to receive events over HTTP(S) or XMPP. The event must be a JSON string, which will be transformed into an `EsbListenerEvents` bean. This contains an array of one or more `EsbListenerEvent` beans. More information on the [incoming beans](#) is available.

Configuration

Examples of how to [configure Grouper to use the ESB connector](#) are available. Detailed configuration examples for various uses cases linked to an ESB can be found with the documentation for the (open source) [ESB/Rules engine hybrid](#) in use at Cardiff University.