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Handling replies to service requests

When a service of the external party or **Aware IM** has been requested the service provider may send a reply. The reply is sent as a special notification (called the *service reply notification*). This notification implements the [INotification](#) interface and exposes methods that allow checking the status of the service request and retrieve error message if there was any.

If **Aware IM** requests services of external parties, replies from the external parties need to be delivered back to **Aware IM**. Rather than write the Source that would do this it is possible to use the special version of a Sink that would not only deliver service requests to the external party but also send the immediate replies back to **Aware IM**.

Rather than extending `AbstractSimpleSink` class such a Sink must extend the `AttachedReplySink` class. `AttachedReplySink` has the Source, which **Aware IM** automatically attaches to the Sink when Sources and Sinks are constructed. The only extra functionality that the Sink extending `AttachedReplySink` has to provide is to feed the reply to the attached Source when the reply becomes available - this will guarantee that the reply will be delivered to **Aware IM**. Feeding reply to the source is achieved by calling the `feedToSource` method of `AttachedReplySink` passing it the `DataObjects` as required by the Source.

The message fed to the source must contain the service reply notification. The service reply notification can be constructed calling the static method

```
INotification DomainFactory.createServiceReplyNotification
(INotificationDefinition definition, int serviceStatus, String
errorMessage);
```

where `definition` must correspond to the structure of the reply declared for the requested service (or null if a "standard" reply has been declared), `serviceStatus` is the constant described in the [getServiceStatus](#) method of the [INotification](#) interface and `errorMessage` is the message describing the error if service failed.

Once the notification has been created it can be converted to `DataObjects` using the [MessageBuilder](#) class and fed to the source. Here is the snippet of the code illustrating this:

```
public void processMessage (Message msg)
{
    // call the service here
    // ...
    // construct service reply notification and feed it back to Aware IM
    INotification serviceReply =
DomainFactory.createServiceReplyNotification (null,
INotification.SERVICE_STATUS_SUCCESS, null);
    MessageBuilder mb = new MessageBuilder ();
    feedToSource (msg.peekDataObjects (), mb.addNotification (null,
serviceReply));
}
```

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