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The Diameter MUX capabilities are defined by the MBean interface org.mobicents.diameter.stack.DiameterStackMultiplexerMBean. This interface defines two types of methods:

Management

Used by RHQ console. These methods are outside the scope of this documentation.

Stack Accessors

Methods that allow the user to retrieve and use a wrapped stack.

The methods below are of interest to a Diameter MUX user:

```
public Stack getStack();
```

Returns a stack wrapped by the multiplexer. It is present as a convenience method, and the stack should only be changed directly by expert users.

```
public void registerListener(DiameterListener listener, ApplicationId[] appIds) throws
IllegalStateException;
```

Registers a listener to be triggered when a message for a certain application ID is received.

```
public void unregisterListener(DiameterListener listener);
```

Removes the message listener.

```
public DiameterStackMultiplexerMBean getMultiplexerMBean();
```

Returns the actual instance of MUX.

The listener interface is defined below:

MUX can be used as follows:

```
public class DiameterActor implements DiameterListener
    private ObjectName diameterMultiplexerObjectName = null;
    private DiameterStackMultiplexerMBean diameterMux = null;
    private synchronized void initStack() throws Exception {
        this.diameterMultiplexerObjectName =
            new ObjectName("diameter.mobicents:service=DiameterStackMultiplexer");
        Object[] params = new Object[]{};
        String[] signature = new String[]{};
        String operation = "getMultiplexerMBean";
        this.diameterMux=mbeanServer.invoke(this.diameterMultiplexerObjectName,
operation,
            params, signature);
        long acctAppIds = new long[]{19312L};
        long acctVendorIds = new long[]{193L};
        long authAppIds = new long[]{4L};
        long authVendorIds = new long[]{0L};
        List<ApplicationId> appIds = new ArrayList<ApplicationId>();
        for(int index = 0;index<acctAppIds.length;index++) {</pre>
            appIds.add(ApplicationId.createByAccAppId(acctVendorIds[index],
acctAppIds[index]));
        }
        for(int index = 0;index<authAppIds.length;index++) {</pre>
            appIds.add(ApplicationId.createByAuthAppId(authVendorIds[index],
authAppIds[index]));
        }
        this.diameterMux.registerListener(this, appIds.toArray(new ApplicationId
[appIds.size()]));
        this.stack = this.diameterMux.getStack();
        this.messageTimeout = stack.getMetaData().getConfiguration().getLongValue(
            MessageTimeOut.ordinal(), (Long) MessageTimeOut.defValue());
   }
}
```