Injection Of Connectionfactory

Example injection-of-connectionfactory can be browsed at https://github.com/apache/tomee/tree/master/examples/injection-of-connectionfactory

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Messages

```
package org.superbiz.injection.jms;

import javax.annotation.Resource;
import javax.ejb.Stateless;
import javax.jms.Connection;
import javax.jms.ConnectionFactory;
import javax.jms.DeliveryMode;
import javax.jms.JMSException;
import javax.jms.MessageConsumer;
import javax.jms.MessageProducer;
import javax.jms.Queue;
import javax.jms.Session;
import javax.jms.TextMessage;

@Stateless
public class Messages {

    @Resource
    private ConnectionFactory connectionFactory;

    @Resource
    private Queue chatQueue;


    public void sendMessage(String text) throws JMSException {

        Connection connection = null;
        Session session = null;

        try {
            connection = connectionFactory.createConnection();
            connection.start();

            // Create a Session
            session = connection.createSession(false, Session.AUTO_ACKNOWLEDGE);

            // Create a MessageProducer from the Session to the Topic or Queue
            MessageProducer producer = session.createProducer(chatQueue);
            producer.setDeliveryMode(DeliveryMode.NON_PERSISTENT);
```

```
            // Create a message
            TextMessage message = session.createTextMessage(text);

            // Tell the producer to send the message
            producer.send(message);
        } finally {
            // Clean up
            if (session != null) session.close();
            if (connection != null) connection.close();
        }
    }

    public String receiveMessage() throws JMSException {

        Connection connection = null;
        Session session = null;
        MessageConsumer consumer = null;
        try {
            connection = connectionFactory.createConnection();
            connection.start();

            // Create a Session
            session = connection.createSession(false, Session.AUTO_ACKNOWLEDGE);

            // Create a MessageConsumer from the Session to the Topic or Queue
            consumer = session.createConsumer(chatQueue);

            // Wait for a message
            TextMessage message = (TextMessage) consumer.receive(1000);

            return message.getText();
        } finally {
            if (consumer != null) consumer.close();
            if (session != null) session.close();
            if (connection != null) connection.close();
        }
    }
}
```

MessagingBeanTest

```
package org.superbiz.injection.jms;

import junit.framework.TestCase;

import javax.ejb.embeddable.EJBContainer;
import javax.naming.Context;

public class MessagingBeanTest extends TestCase {

    public void test() throws Exception {

        final Context context = EJBContainer.createEJBContainer().getContext();

        Messages messages = (Messages) context.lookup("java:global/injection-of-
connectionfactory/Messages");

        messages.sendMessage("Hello World!");
        messages.sendMessage("How are you?");
        messages.sendMessage("Still spinning?");

        assertEquals(messages.receiveMessage(), "Hello World!");
        assertEquals(messages.receiveMessage(), "How are you?");
        assertEquals(messages.receiveMessage(), "Still spinning?");
    }
}
```

Running

```
-------------------------------------------------------
 T E S T S
-------------------------------------------------------
Running org.superbiz.injection.jms.MessagingBeanTest
Apache OpenEJB 4.0.0-beta-1    build: 20111002-04:06
http://tomee.apache.org/
INFO - openejb.home = /Users/dblevins/examples/injection-of-connectionfactory
INFO - openejb.base = /Users/dblevins/examples/injection-of-connectionfactory
INFO - Using 'javax.ejb.embeddable.EJBContainer=true'
INFO - Configuring Service(id=Default Security Service, type=SecurityService,
provider-id=Default Security Service)
INFO - Configuring Service(id=Default Transaction Manager, type=TransactionManager,
provider-id=Default Transaction Manager)
INFO - Found EjbModule in classpath: /Users/dblevins/examples/injection-of-
connectionfactory/target/classes
INFO - Beginning load: /Users/dblevins/examples/injection-of-
connectionfactory/target/classes
INFO - Configuring enterprise application: /Users/dblevins/examples/injection-of-
connectionfactory
```

```
WARN - Method 'lookup' is not available for 'javax.annotation.Resource'. Probably
using an older Runtime.
INFO - Configuring Service(id=Default Stateless Container, type=Container, provider-
id=Default Stateless Container)
INFO - Auto-creating a container for bean Messages: Container(type=STATELESS,
id=Default Stateless Container)
INFO - Configuring Service(id=Default JMS Connection Factory, type=Resource, provider-
id=Default JMS Connection Factory)
INFO - Auto-creating a Resource with id 'Default JMS Connection Factory' of type
'javax.jms.ConnectionFactory for 'Messages'.
INFO - Configuring Service(id=Default JMS Resource Adapter, type=Resource, provider-
id=Default JMS Resource Adapter)
INFO - Auto-linking resource-ref
'java:comp/env/org.superbiz.injection.jms.Messages/connectionFactory' in bean Messages
to Resource(id=Default JMS Connection Factory)
INFO - Configuring Service(id=org.superbiz.injection.jms.Messages/chatQueue,
type=Resource, provider-id=Default Queue)
INFO - Auto-creating a Resource with id
'org.superbiz.injection.jms.Messages/chatQueue' of type 'javax.jms.Queue for
'Messages'.
INFO - Auto-linking resource-env-ref
'java:comp/env/org.superbiz.injection.jms.Messages/chatQueue' in bean Messages to
Resource(id=org.superbiz.injection.jms.Messages/chatQueue)
INFO - Configuring Service(id=Default Managed Container, type=Container, provider-
id=Default Managed Container)
INFO - Auto-creating a container for bean
org.superbiz.injection.jms.MessagingBeanTest: Container(type=MANAGED, id=Default
Managed Container)
INFO - Enterprise application "/Users/dblevins/examples/injection-of-
connectionfactory" loaded.
INFO - Assembling app: /Users/dblevins/examples/injection-of-connectionfactory
INFO - Jndi(name="java:global/injection-of-
connectionfactory/Messages!org.superbiz.injection.jms.Messages")
INFO - Jndi(name="java:global/injection-of-connectionfactory/Messages")
INFO -
Jndi(name="java:global/EjbModule1634151355/org.superbiz.injection.jms.MessagingBeanTes
t!org.superbiz.injection.jms.MessagingBeanTest")
INFO -
Jndi(name="java:global/EjbModule1634151355/org.superbiz.injection.jms.MessagingBeanTes
t")
INFO - Created Ejb(deployment-id=Messages, ejb-name=Messages, container=Default
Stateless Container)
INFO - Created Ejb(deployment-id=org.superbiz.injection.jms.MessagingBeanTest, ejb-
name=org.superbiz.injection.jms.MessagingBeanTest, container=Default Managed
Container)
INFO - Started Ejb(deployment-id=Messages, ejb-name=Messages, container=Default
Stateless Container)
INFO - Started Ejb(deployment-id=org.superbiz.injection.jms.MessagingBeanTest, ejb-
name=org.superbiz.injection.jms.MessagingBeanTest, container=Default Managed
Container)
INFO - Deployed Application(path=/Users/dblevins/examples/injection-of-
```

```
connectionfactory)
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.562 sec

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
```