Coming from an Enterprise Application background,

Blended supports connections to one or more

external JMS Providers. Normally, the API

for enternal JMS Providers in eleployed

into Blended as plain API Bundles and

just provide the client API for the

external JMS provider.

As we can have multiple JMS vendors
and potentially have multiple connections
for a configured vendor, we have introduced
the IdAware Connection Factory providing
the properties vendor and provider on
top of all JMS defined properties and
methods.

In EAI seenamon it is a common requirement to lightly control the number of connections to the outside world. Therefore, each Connection Factory is wrapped within a Blended Sing le Connection Factory, which manages exactly one connection on behalf of the container.

As a result, a bundle radizing a connection to an external provider usually creates one or more Blended Sing le Connection Factories and registers those with the interfaces Connection Factory and Toldware—

Connection Factory, To identify registered Connection Factory, to identify registered connection Factory the property combination wender / provider must be unique within the container.

The internal Provider

A Blended container may require a local JMS broker, so that container cliest may leverage JMS to send mersages to the container for further processing.

Also, a local broker can be used to realize a store and forward medanism across unreliable networks.

For example, in the process sketched
out below the blue boxes are all local
to the blended container, outbound
messages with go to a local queue
first then a JMS bridge will forward

the mensage to the external IMS provider and only acknowledge the menage locally upon a successful send.



Blended supports exactly one internal

JMS provider (which is currently realized

with an embedded Active Ma broker). The

associated provider configuration will

have the winternal property set to TRUE.

Some bundles such as the JMS Bridge or the generic Displetcher require an internal CF to work with.

As a general rule if the container in to be deployed remotely, i.e. in a shop of a retail network, the container should leverage a local JMS broker and only connect to external providers with an instance of the JMS broker

The next Blended release will have an implementation of steam based integration flows. This also brings an abstraction of 3MS messages, the Flow Message. For each technology in use a mapping between the Flow Message and the technical external message is defined. As a result, the resulting streams are technology gnostic.

Blended Single Connection Factory

Under the covers a Blanded Single Connection Factory will try to establish the connection as soon as possible and maintain it for as long as the container exists.

Any time, the connection is not corrently established, the areate" method will

uield a JMS Exception

Once dinconnected, Ele 3 SCF will wait

for an amount of time before a reconnect in attempted. This prevents the external provider to be flooded with connection

requests after it has been restarted.

to consume merrages, it is sometimes hard to detect connection failures.

Even though most modern JMS providers have some form of Leep alive support.

this is a feature not defined in the JMS specification and mually works a bit differently for each provider.

Therefore, the BSCT has an embedded ping support to perform a JMS request
reply at regular intervals.

In case a ping fails, the interval is interval is shortened, so that the ping has fail of more ropidly. If the ping has fail of a defined number of times, the connection is considered dead and will be vertarted.

The state of all BSCF in published and maintained via JML.

Closing the connection beneath a 3SCT will terminate all Streams that are using Sines, Sources or Integration steps based on this BSCF. There streams can be configured with automated restorts, so that they will pick up the new connection eventually.