

Bean Provider Responsibility	Container Provider Responsibility			Client View	
Application Exceptions Throw AppException Requirements: -Exception must be a subtype of Exception and not be a subtype of RuntimeException or RemoteException -Exception can be CreateException, RemoveException, FinderException and subclasses thereof -Possible to invoke setRollbackOnly() before throwing the application exception -throw AppException before modifying DB -No EJB(Local)Object removal!!	Caller tx (Required, Mandatory, Supports)	Throw AppException		Receive AppException	if (ctx.getRollbackOnly()) //impossible to commit tx else //do more work and commit tx
	BMT (SB only)				if (ut.getStatus()) //impossible to commit tx else //do more work and commit tx
	No tx (NotSupported, Never, Supports)				Client tx (if existing) is not marked for rollback
	Cont. tx (Required, RequiresNew)	if (getRollbackOnly()) //rollback tx else //commit tx	Throw AppException		
Other Exceptions if (RuntimeException) propagate it else wrap checked exception or any other error in EJBException and throw it	Caller tx (Required, Mandatory, Supports)		Throw TransactionRolledback-(Local)Exception	Receive TR(L)E	
	BMT (SB, MDB)	-Log -Mark tx for RB (only if tx exists) -Discard instance and release managed resources MDB	Throw: -RemoteException to remote clients and -EJBException to local clients	Receive RemoteException or EJBException	Client tx may or may not have been marked for rollback
	No tx (NotSupported, Never, Supports)				
	Cont. tx (Required, RequiresNew)				

The table applies to entity and session (stateful and stateless) beans. Only the blue part applies to message-driven beans.

The exception flow goes from the left to the right. An exception is usually thrown by the underlying system or by the bean provider, and goes through the container to the client (only for entity and session beans). Exception handling is performed according to the transaction context in which the business method that throws the exception is run.

Strategies for dealing with RemoteException or EJBException on the client's side.

