AUTO\_ACKNOWLEDGE

The session automatically acknowledges each message received by the application.

If messages are delivered synchronously to the application, the session acknowledges receipt of a message every time a Receive call completes successfully. If messages are delivered asynchronously, the session acknowledges receipt of a message every time a call to the onMessage() method of a message listener completes successfully.

If the application receives a message successfully, but a failure prevents acknowledgment from occurring, the message becomes available for delivery again. The application must therefore be able to handle a message that is re-delivered.

DUPS\_OK\_ACKNOWLEDGE

The session acknowledges the messages received by the application at times it selects.

Using this acknowledgment mode reduces the amount of work the session must do, but a failure that prevents message acknowledgment might result in more than one message becoming available for delivery again. The application must therefore be able to handle messages that are re-delivered.

CLIENT\_ACKNOWLEDGE

The application acknowledges the messages it receives by calling the Acknowledge method of the Message class.

The application can acknowledge the receipt of each message individually, or it can receive a batch of messages and call the Acknowledge method only for the last message it receives. When the Acknowledge method is called all messages received since the last time the method was called are acknowledged.

Source: [ibm.com](https://www.ibm.com/docs/en/ibm-mq/8.0?topic=application-acknowledgment-modes-jms-sessions)