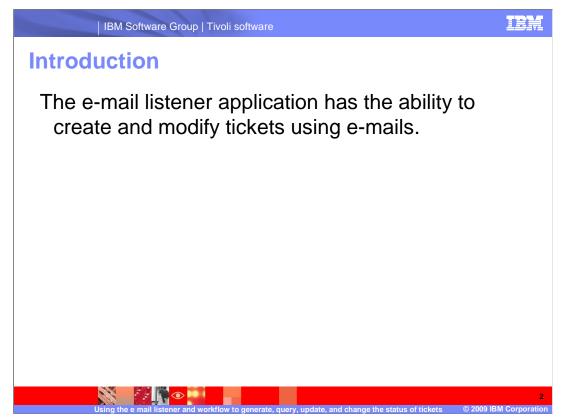
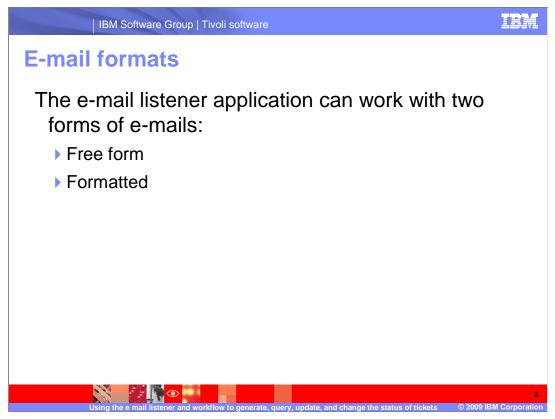


IBM Tivoli Service Request Manager® 7.1

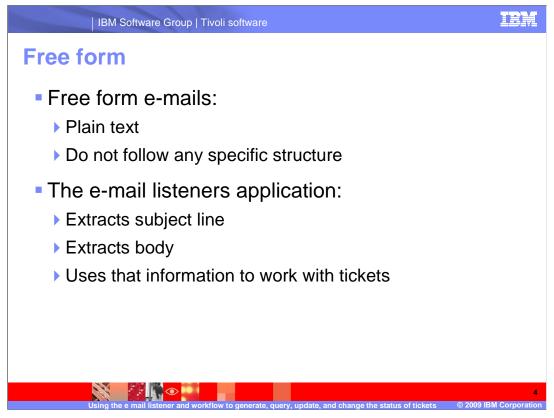
Using the e-mail listener and workflow to generate, query, update, and change the status of tickets



Using specially formatted e-mails, the E-mail Listener application (using the LSNRPB workflow) has the ability to create, query, update, and change status of, a ticket.

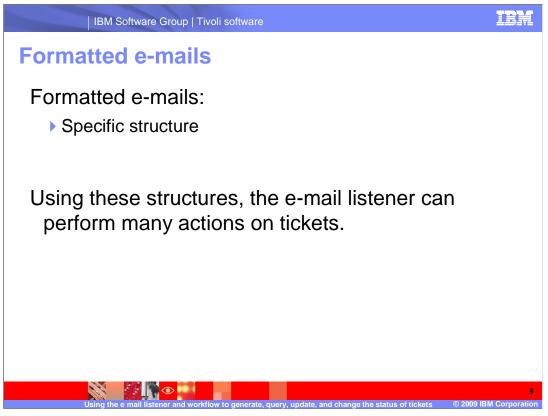


The E-mail Listener application can work with two forms of e-mails: Free Form and Formatted.



Free form e-mails are in plain text and do not follow any specific structure. The E-mail Listeners application extracts the subject line and body of free form e-mails and uses them to either create a Service Request or update an existing ticket. Free form e-mails are always processed as Service Requests. If the use of other types of tickets is planned, use formatted messages only.

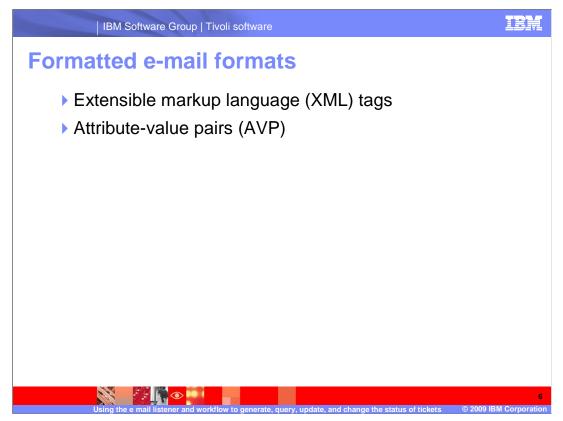
For more details on using free form e-mails, see the Setting up and using the e-mail *listener* training.



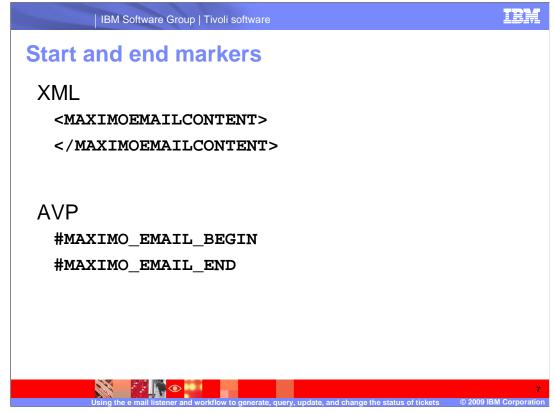
Formatted e-mails use a specific structure in the message body.

Using these e-mails, the e-mail listener has the ability to perform the following actions:

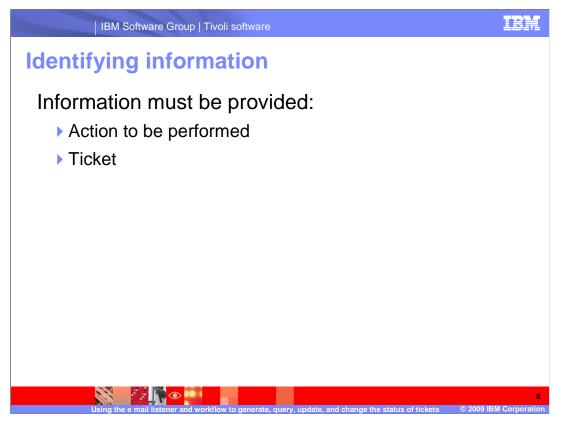
Create a new ticket Query an existing ticket Update ticket information Change the ticket status



E-mails formatted for use with the e-mail listener use two different formats, extensible markup language (commonly known as XML) and Attribute-Value Pairs (known as AVP).



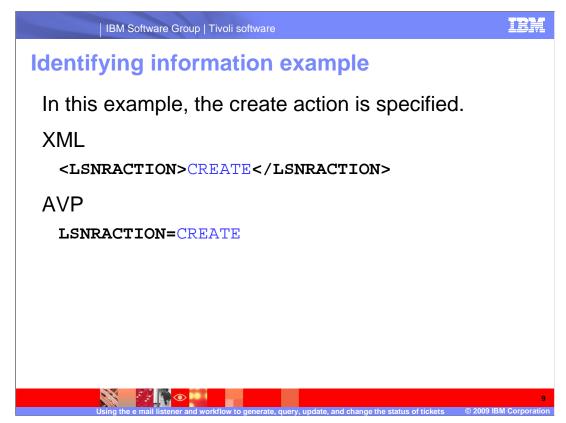
In both the XML and AVP cases, the start and end of the message is signified with keywords.



Information must be provided stating the action to be performed.

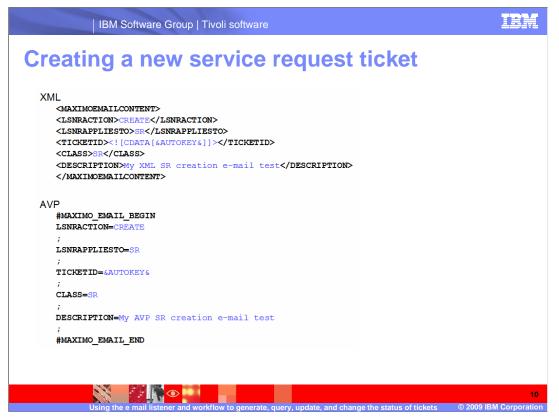
In the case of querying, updating, or changing the status of a ticket, information must also be supplied to identify the ticket in question.

This information is placed in between the start and end markers.



The action to be used must be specified.

Note, for AVP formatted messages a semi-colon character is placed between all attribute value groups. For XML formatted messages, if the keywords &AUTOKEY& or &SYSDATE& must be used, these keywords must be escaped using standard XML CDATA constructs.

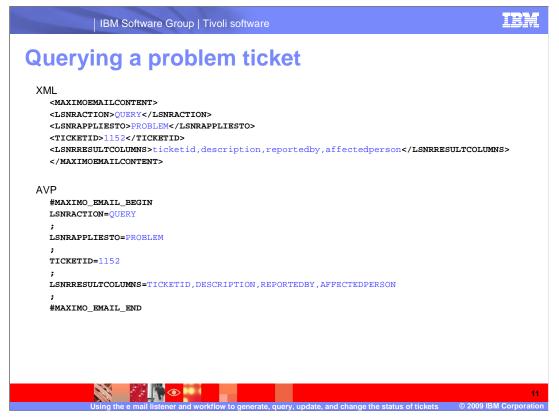


Starting with this slide, examples of the different actions that can be performed on tickets will be shown.

This example covers creating a new service request using a formatted message.

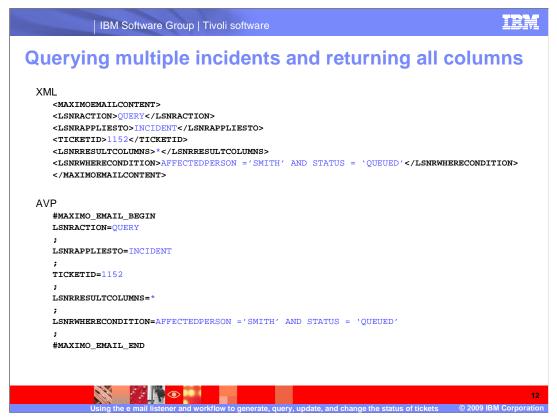
There are two different examples here, XML and AVP. They both specify the *action type* of *create*, the *applies to* type of *SR* for service request, the *ticket ID* of *Autokey*, a *class type* of *SR*, description of *My XML or AVP SR creation e-mail test* and finally the close tag.

Note that in the XML version, the &AUTOKEY& information has been wrapped in a CDATA construct.

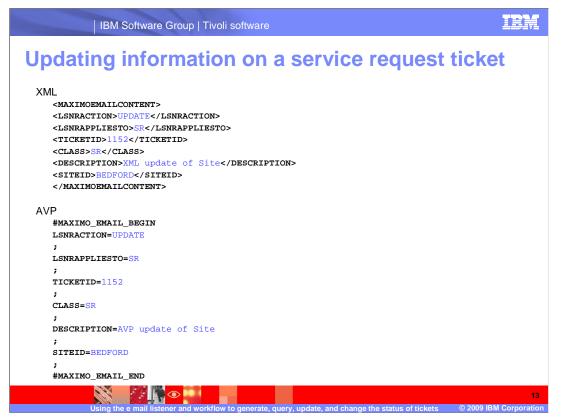


In this example covering the querying of a problem ticket, specified are an action type of *query*, applies to of *problem*, the *ticket id*, the columns to be returned, in this case *ticket id*, *description*, *reported by*, and *affected person*, and finally the close tags.

Note that each column to be returned is specified.



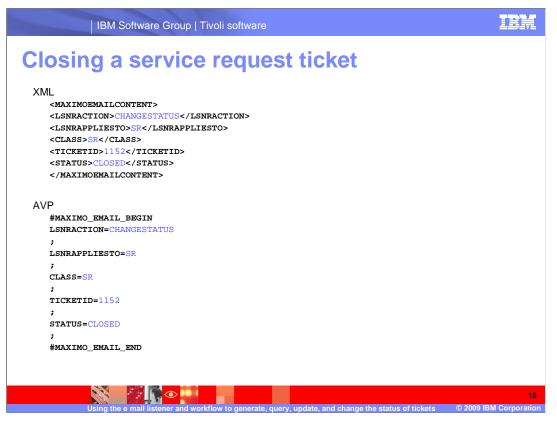
These examples are the same as the previous example, except for the difference of, to return all columns the asterisk symbol is used. A where condition has been added that allows for the selection of the person and status of the ticket.



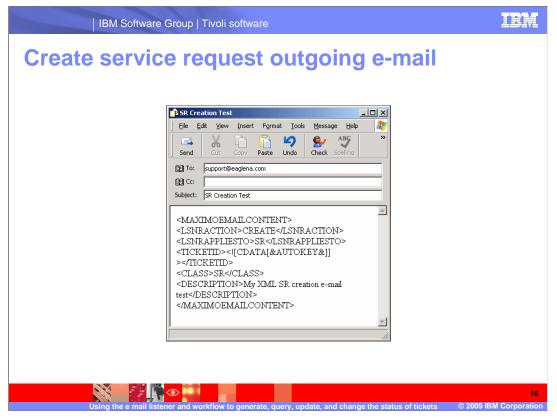
In this example covering the updating of information on a ticket, an *action* type of *update*, an *applies to* type of SR, a *ticketid*, *class*, *description* and *siteid* are specified.



In this example of changing the status of a ticket, an *action* type of *change status*, an *applies to* type of SR, a *ticket id*, *class*, and *status* are specified.



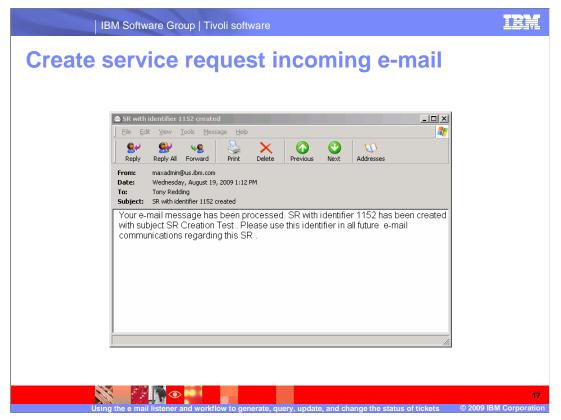
Closing a ticket only takes a simple status change, so it is given an *action* type of *change status*, an *applies to* type of SR, a *ticket id*, *class*, and a *status* of *closed*.



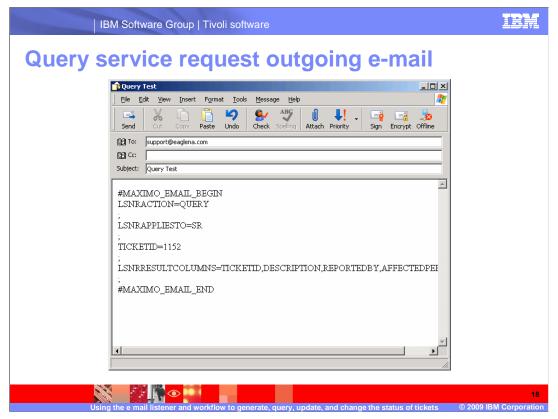
Now, real world examples of formatted e-mails being sent to and received from the e-mail listener will be covered.

This example will show a service request created using an outgoing e-mail.

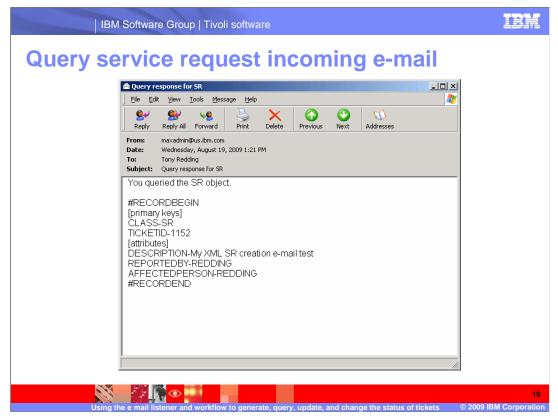
First, an XML formatted message is sent asking for the creation of a new service request.



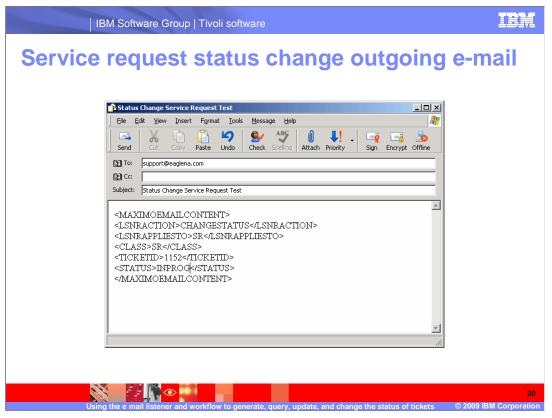
And here is the reply sent from the e-mail listener verifying that the service request was created.



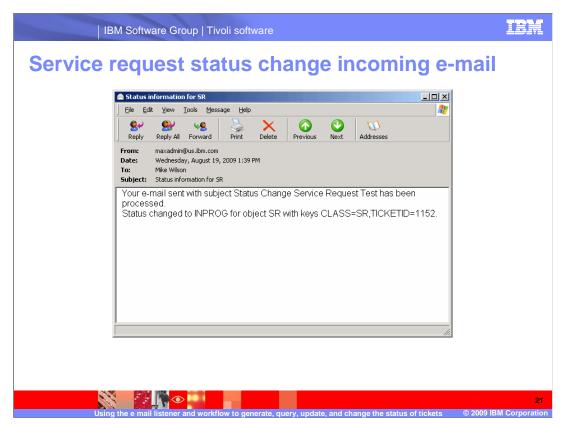
In the next example, an AVP formatted e-mail is sent querying a few fields from the newly created service request.



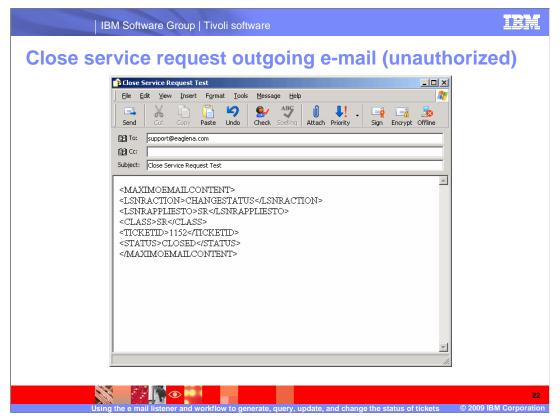
And the reply giving the requested information is received.



In this next example, an XML formatted message is requesting the change of a Service Requests' status to *In Progress*.



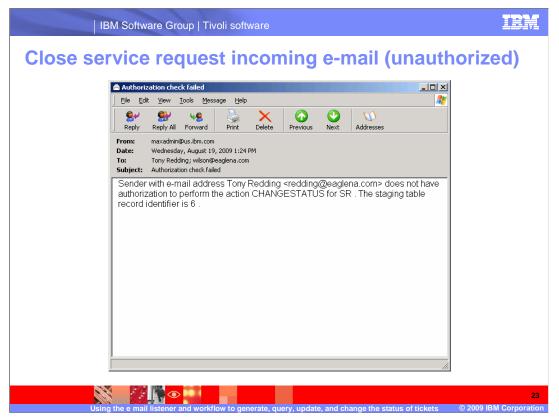
And the reply comes back confirming the successful change.



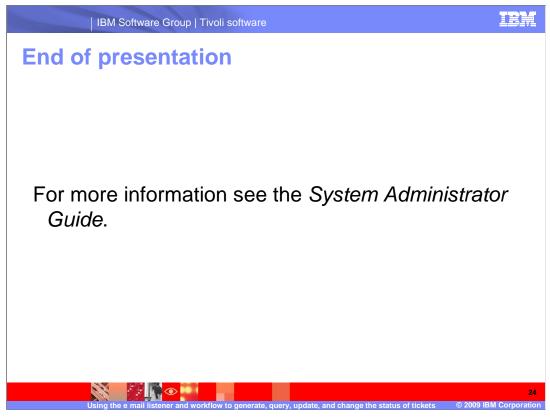
This final example deals with an unauthorized person requesting the closure of a ticket.

Not everyone has the proper permissions to change ticket information. If they would not have permission to change the information from inside of Service Request Manager, then they will not be able to change it using the e-mail listener.

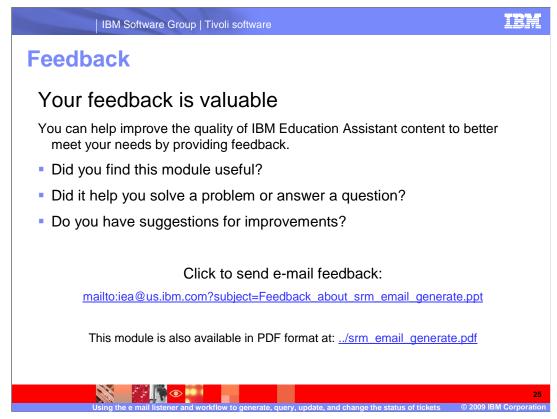
Although it is not obvious from the image, this close request is being sent from the account of a user who is not authorized to change the status of a ticket.



And the reply is received stating that the user is not authorized to change the status of the service request.



For more information see the *IBM Tivoli Service Request Manager 7.1 System Administrator Guide*.



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