**#17776** - <https://redmine.vnc.biz/issues/17776>

1. **Description**:

UI/UX of file transfer feature:

- There is a window to display all file transfer sessions

- Each file transfer session:

+ Display progress bar and cancel button

+ Status of file transfer: success, fail, error, cancel/abort.

Workflow:

- Sender request to send a file

- Receiver receives file request, then display a popup accept/deny.

- If receiver accept:

+ Display progress bar and cancel button in file-window

- If receiver deny:

+ Display a denied message in file-window

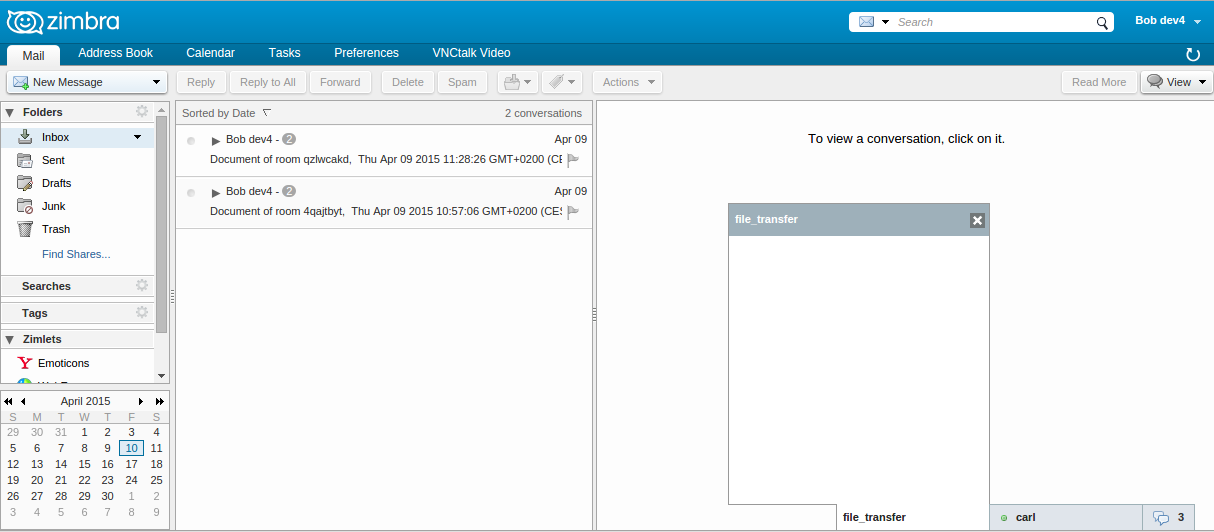
- If file transfer error, display error message in file-window.

1. **Analytic**
   1. **Root cause**:
   2. **Solutions**:

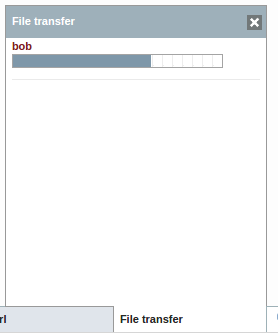
- UI/UX:

+ Hide/unhidden

+ Close window button



+ Progress bar (css)



- Add and update message:

+ started (incoming/outgoing)

+ progress

+ decline

+ done (sent/received)

1. **Implementation**
   1. **Code:**

* Create UX/UI File transfer status window:

+ Hide/unhidden

+ Close window button

prosody-packaging/mini/javascripts/mini.js

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| /\*\*  \* Create status file transfer  \*/  self.createFileTransferStatus = function() {  var hash = 'file\_transfer';  var nick = 'File transfer';  var type = 'chat';  var html = '<div class="jm\_conversation jm\_type\_' + type + '" id="chat-' + hash + '" data-type="' + type + '" data-nick="' + JappixCommon.escapeQuotes(nick) + '" data-hash="' + hash + '">' +  '<div class="jm\_chat-content">' +  '<div class="jm\_actions">' +  '<span class="jm\_nick">' + nick + '</span>' +  '<a class="jm\_one-action jm\_close jm\_images" title="' + JappixCommon.\_e("Close") + '" href="#"></a>' +  '</div>' +  '<div class="jm\_pix\_stream"></div>' +  '<div class="jm\_received-messages" id="received-' + hash + '">' +  '</div>' +  '</div>' +  '<div class="jm\_one-action">'+  '<a class="jm\_pane jm\_chat-tab jm\_file-transfer-tab jm\_images" href="#" id="jm\_a\_'+ hash +'">' +  '<span class="jm\_name">' + nick.htmlEnc() + '</span>' +  '</a>' +  '</div>';  var file\_transfer\_parse = jQuery(jQuery.parseHTML(html));  file\_transfer\_parse.find('a.jm\_close').click(function(){  var current\_sel = file\_transfer\_parse;  current\_sel.stopTime().remove();  });  if (jQuery('#jappix\_mini div.jm\_conversations').find('a.jm\_file-transfer-tab').length == 0) {  jQuery('#jappix\_mini div.jm\_conversations').prepend(file\_transfer\_parse);  }  // add click file transfer event  file\_transfer\_parse.find('a.jm\_file-transfer-tab').click(function() {  // Using a try/catch override IE issues  try {  if(!jQuery(this).hasClass('jm\_clicked')) {  // Show it!  self.switchPane('chat-file\_transfer', 'file\_transfer');  } else {  self.switchPane();  }  } catch(e) {}  finally {  return false;  }  });  } |

* Add progress bar:

**Display**: prosody-packaging/mini/javascripts/mini.js

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| self.DisplayFileTransferStatus = function(session,action) {  ….  var fileTag = jQuery('#jappix\_mini #chat-file\_transfer div.jm\_group').filter('#' + session.sid);  var html = '<p><i>' + session.filename + '</i></p>' +  '<progress value="' + session.value + '" max="' + session.size +'"></progress>';  fileTag.find('p').html(html);  return;  …. |

**CSS**:prosody-packaging/mini/stylesheets/mini.css

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| #chat-file\_transfer progress {  height: 14px;  width: 85%;  } |

* **Add and update message:**

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| /\*\*  \* Display message and progress file transfer  \* @param session  \* @param session.issend (boolean)  \* @param session.sid  \* @param session.from  \* @param session.to  \* @param session.filename  \* @param session.size  \* @param session.value  \* action:  \* + started (incoming/outgoing)  \* + progress  \* + decline  \* + cancel  \* + error  \* + done (sent/received)  \*/  self.DisplayFileTransferStatus = function(session,action) {  if (action === 'progress' ) {  var fileTag = jQuery('#jappix\_mini #chat-file\_transfer div.jm\_group').filter('#' + session.sid);  var html = '<p><i>' + session.filename + '</i></p>' +  '<progress value="' + session.value + '" max="' + session.size +'"></progress>';  fileTag.find('p').html(html);  return;  }  switch(action) {  case 'started':  if (session.issend) {  body = 'Share a file: ' + session.filename + ', size: ' + Math.floor(session.size/1024) + 'kb';  } else {  body = 'Accept to receive ' + session.filename;  }  break;  case 'done':  if (session.issend) {  body = 'Sent file completed';  } else {  body = 'Receive ' + session.filename + ' successfully'  }  break;  case 'decline':  if (session.issend) {  body = 'File transfer ' + session.value;  } else {  body = 'Deny to receive ' + session.filename;  }  break;  case 'error':  break;  case 'cancel':  break;  default:  // Ignore  }  self.DisplayMessageFileTransferStatus(session.sid,session.to,body);  }  /\*\*  \* Create and update message file transfer  \* @param sid  \* @param buddy  \* @param body  \*/  self.DisplayMessageFileTransferStatus = function(sid,buddy,body) {  var nick = buddy.substring(0,buddy.indexOf("@"));  var fileTag = jQuery('#jappix\_mini #chat-file\_transfer div.jm\_group').filter('#' + sid);  if(fileTag.length > 0) {  //Update message  fileTag.find('p').text(body);  } else {  //Create message  var html = '<div class="jm\_group jm\_user-message" data-type="user-message-message" data-stamp="' +  JappixDateUtils.getTimeStamp() + '" id="' + sid + '">' +  '<b class="jm\_name jm\_him">' + nick + '</b>' +  '<p>' + body + '</p>' +  '</div>'  jQuery('#jappix\_mini #chat-file\_transfer div.jm\_received-messages').append(html);  //Auto ScrollTop  self.messageScroll('file\_transfer');  }  } |

* **Catch event and add message:**

**Receiver:**

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| self.initFileTransferSession = function(){  …  self.createFileTransferStatus();  var session = {  issend: false,  sid: receiverSession.sid,  from: receiverSession.peer.bare,  to: receiverSession.parent.jid.bare,  filename: receiverSession.receiver.metadata.name,  };  var dialog = appCtxt.getYesNoMsgDialog();// get a simple message dialog  dialog.reset(); // reset the dialog  dialog.setMessage(JappixCommon.bareXID(receiverSession.peerID) + " would like to share a file '" + receiverSession.receiver.metadata.name + "' with you." , DwtMessageDialog.INFO\_STYLE); // set the message "info" style  dialog.setButtonListener(DwtDialog.YES\_BUTTON,new AjxListener(this,function(){  dialog.popdown();  receiverSession.accept();  self.switchPane('chat-file\_transfer', 'file\_transfer');  self.DisplayFileTransferStatus(session,'started');  }));  dialog.setButtonListener(DwtDialog.NO\_BUTTON,new AjxListener(this,function(){  dialog.popdown();  receiverSession.decline();  self.DisplayFileTransferStatus(session,'decline');  }));  dialog.popup();  receiverSession.receiver.on('progress', function (recvd, total) {  log('Received from '+receiverSession.peerID+': ' + recvd + '/' + total);  session.size = total;  session.value = recvd;  self.DisplayFileTransferStatus(session,'progress');  });  receiverSession.on('receivedFile', function (receiverSession, file, metadata) {  log('Received file', metadata.name, metadata.size);  var downloadURL = window.webkitURL.createObjectURL(file);  var aLink = document.createElement("a");  aLink.href = downloadURL;  aLink.download = metadata.name;  aLink.click();  self.DisplayFileTransferStatus(session,'done');  });  ... |

**Sender:**

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| self.startFileTransfer = function(buddy){  …  self.createFileTransferStatus();  self.switchPane('chat-file\_transfer', 'file\_transfer');  log('Offering:', file.name, file.size, file.type, file.lastModifiedDate);  transferSession = self.client.jingle.createFileTransferSession(buddy + "/file\_transfer");  var session = {  issend: true,  sid: transferSession.sid,  from: transferSession.parent.jid.bare,  to: buddy,  filename: file.name,  size: file.size  };  transferSession.sender.on('progress', function (sent, total) {  log('Sent to ' + buddy + ': ' + sent + '/' + total);  session.value = sent;  self.DisplayFileTransferStatus(session,'progress');  });  transferSession.on('terminated',function(transferSession,reason){  session.value = reason.condition;  if (reason.condition == 'success') {  self.DisplayFileTransferStatus(session,'done');  }else{  self.DisplayFileTransferStatus(session,'decline');  }  });  transferSession.start(file);  var hash = hex\_md5(buddy);  var meta = {"name": file.name,"algo":"sha-1","hash":hash};  transferSession.sender.on('sentFile',function(meta){  self.DisplayFileTransferStatus(session,'done');  });  self.DisplayFileTransferStatus(session,'started');  .... |