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Action
Plan
Report

Application: Kaleidoscope
Analysis label: No label
Analysis date: 2016/04/05 21:54
Report date: 2016/04/05 22:08

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OVERVIEW

This action plan is the result of a What If exercise calculated in order to get better in quality spending the less as possible. In this section Kiuwan provides the main numbers as they are now and as they are going to be if all suggested correction wil be done.

Effort to spend

717.8 Hours

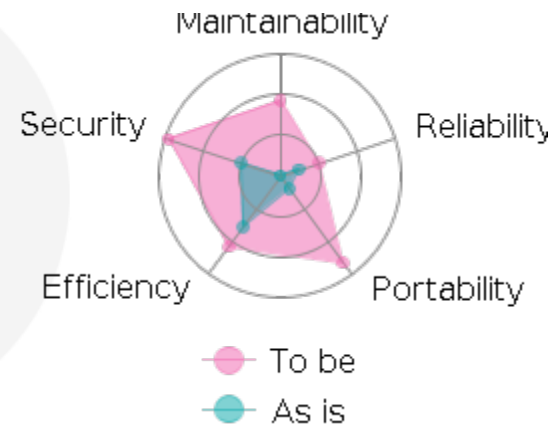|	As is	To be
Risk index	100.00	NULL
Global indicator	22.89	68.42
Effort to target	549 h	0 h

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INDICATOR VALUES

You have the model indicators in the current analysis and the ones that you are going to get if you executes this Action Plan.

Global indicator

68.42

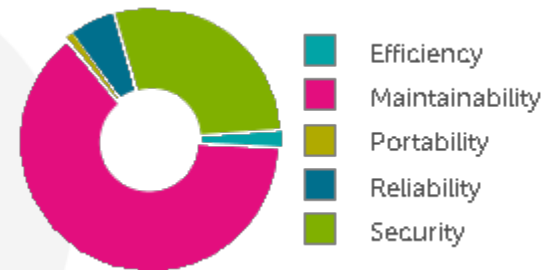|	As is	To be
Maintainability	0.04	61.68
Reliability	16.41	33.99
Portability	13.2	88.23
Efficiency	51.89	71.78
Security	33.86	96.98
Global indicator	22.89	68.42

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EFFORT TO SPEND

In this chapter you have a detailed budget of this action plan.
You get a breakdown according to the software characteristics
defined in CQM model.

Effort to spend

717.8 Hours

Effort to spend	
Efficiency	13.8 Hours
Maintainability	454 Hours
Portability	6.3 Hours
Reliability	39.7 Hours
Security	204 Hours
Total	717.8 Hours

- Efficiency
- Maintainability
- Portability
- Reliability
- Security

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DETAILED ACTION PLAN

This chapter contains the technical information of the Action Plan. You have a different section for each broken rule.

About each rule you have tha number of defects that you have to correct and the number of files that you need to change. In addition you get the softare characteristic, the language, the priority (importance) and the difficulty (represents the time you need to apply the change).

Then you can read (in bold) each file that contains defects, and at the end the line number and the text line where you can find the defect.

160 Defect(s) 34 File(s)	Avoid parameter method names that provoke conflicts with class members names.	Maintainability java	Priority 2 Effort 3m

java-libs/WheelView/src/kankan/wheel/widget/WheelScroller.java

160   public boolean onScroll(MotionEvent e1, MotionEvent e2, float distanceX, float distanceY) {

166   public boolean onFling(MotionEvent e1, MotionEvent e2, float velocityX, float velocityY) {

200   public void handleMessage(Message msg) {

java-libs/WheelView/src/kankan/wheel/widget/WheelView.java

140   public void onScroll(int distance) {

398   public void setCyclic(boolean isCyclic) {

448   private int getDesiredHeight(LinearLayout layout) {

544   private void layout(int width, int height) {

src/easydarwin/android/service/SettingsActivity.java

182   public boolean onPreferenceChange(Preference preference, Object value) {

249   private static void bindPreferenceSummaryToValue(Preference preference) {

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src/easydarwin/android/videostreaming/MultiRoom.java

   200   public ArrayList<String> getChatRoomList(XMPPConnection connection, String serviceName) throws XMPPException {

   326   public void handleMessage(android.os.Message handlerMsg) {

   447   public void handleMessage(android.os.Message msg) {

src/easydarwin/android/videostreaming/VideoStreamingFragment.java

   243   public boolean onEditorAction(TextView v, int actionId,

   256   public void initView(View v) {

   305   public void onClick(View v) {

   453   public void InvitationListener(XMPPConnection connection) {

   469   public void invitationReceived(Connection conn,

   565   public void handleMessage(android.os.Message msg) {

   622   public void onItemClick(AdapterView<?> arg0, View v, int position,

   733   private void PAINTViewRoomMsgListener(XMPPConnection connection,

   835   private List<Map<String, String>> getAllFriendsUser(

   954   public void surfaceDestroyed(SurfaceHolder holder) {

   974   public void surfaceCreated(final SurfaceHolder holder) {

  1185   public void surfaceChanged(SurfaceHolder holder, int format, int width,

  1190   public void onSessionError(int reason, int streamType, Exception e) {

  1229   public void surfaceChanged(SurfaceHolder holder, int format, int width,

  1235   public void surfaceCreated(SurfaceHolder holder) {

  1242   public void surfaceDestroyed(SurfaceHolder holder) {

  1327   public boolean onTouch(View v, MotionEvent e) {

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src/net/majorkernelpanic/streaming/gl/SurfaceView.java
273 public void measure(int widthMeasureSpec, int heightMeasureSpec, double aspectRatio) {

src/net/majorkernelpanic/streaming/rtp/AbstractPacketizer.java
104 protected static String printBuffer(byte[] buffer, int start, int end) {
179 public static void save(byte[] buffer, int offset, int length, String path, boolean append) {

src/net/majorkernelpanic/streaming/rtp/H264Packetizer.java
87 public void setStreamParameters(byte[] pps, byte[] sps) {

src/net/majorkernelpanic/streaming/rtsp/RtspClient.java
730 private void postError(final int message, final Exception e) {

src/net/majorkernelpanic/streaming/rtsp/RtspServer.java
241 public void onSharedPreferenceChanged(SharedPreferences sharedPreferences, String key) {

src/openfire/chat/activity/ChatMainActivity.java
272 public void ReceiveMsgListenerConnection(XMPPConnection connection) {
374 public boolean createMultiUserRoom(XMPPConnection connection,

src/openfire/chat/service/GetXMPPConnection.java
22 public XMPPConnection getXMPPConnection(String username, String password){

src/org/videolan/android/ui/GridFragment.java
55 public void onItemClick(AdapterView<?> parent, View v, int position,
183 public void onGridItemClick(GridView gv, View v, int position, long id) {

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src/org/videolan/vlc/audio/AudioService.java

```
  267    public int onStartCommand(Intent intent, int flags, int startId) {
  288    public IBinder onBind(Intent intent) {
  336    public void onReceive(Context context, Intent intent) {
  629    private void executeUpdate(Boolean updateWidget) {
 1087    public synchronized void addAudioCallback(IAudioServiceCallback cb)
 1098    public synchronized void removeAudioCallback(IAudioServiceCallback cb)
 1129    public void load(List<String> mediaPathList, int position, boolean noVideo)
 1189    public void playIndex(int index) {
 1218    public void showWithoutParse(int index) throws RemoteException {
 1240    public void append(List<String> mediaLocationList) throws RemoteException {
 1270    public void moveItem(int positionStart, int positionEnd) throws RemoteException {
 1275    public void remove(int position) {
 1280    public void removeLocation(String location) {
 1340    public void detectHeadset(boolean enable) throws RemoteException {
 1350    private void updateWidget(Context context) {
 1356    private void updateWidgetState(Context context) {
 1374    private void updateWidgetCover(Context context)
 1386    private void updateWidgetPosition(Context context, float pos) {
 1495    private boolean validateLocation(String location)
```

src/org/videolan/vlc/gui/BrowserActivity.java

```
  268    public void onReceive(Context context, Intent intent) {
```

src/org/videolan/vlc/gui/BrowserAdapter.java

```
  116    public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
```

src/org/videolan/vlc/gui/DirectoryViewFragment.java
213   public void onReceive(Context context, Intent intent) {

src/org/videolan/vlc/gui/SearchFragment.java
170   public void onTextChanged(CharSequence s, int start, int before, int count) {
179   public void beforeTextChanged(CharSequence s, int start, int count,
185   public void afterTextChanged(Editable s) {
192   public boolean onEditorAction(TextView v, int actionId, KeyEvent event) {
200   public void onListItemClick(ListView l, View v, int position, long id) {

src/org/videolan/vlc/gui/VLCMainActivity.java
719   public void onReceive(Context context, Intent intent) {
785   public static void sendTextInfo(String info, int progress, int max) {
991   public void onPanelSlide(float slideOffset) {

src/org/videolan/vlc/gui/audio/AudioAlbumsSongsFragment.java
 89   public void setMediaList(ArrayList<Media> mediaList, String title) {
153   public void onSwitched(int position) {
216   public void onCreateContextMenu(ContextMenu menu, View v, ContextMenuInfo menuInfo) {
225   private void setContextMenuItems(Menu menu, View v, int position) {
245   private boolean handleContextItemSelected(MenuItem item, int position) {
334   public void onItemClick(AdapterView<?> av, View v, int p, long id) {
342   public void onItemClick(AdapterView<?> av, View v, int p, long id) {
353   public void onPopupMenu(View anchor, final int position) {
366   public boolean onMenuItemClick(MenuItem item) {

src/org/videolan/vlc/gui/audio/AudioBrowserFragment.java

126	public boolean onTouch(View v, MotionEvent e) {
175	public void onItemClick(AdapterView<?> av, View v, int p, long id) {
183	public void onItemClick(AdapterView<?> av, View v, int p, long id) {
195	public void onItemClick(AdapterView<?> av, View v, int p, long id) {
203	public void onItemClick(AdapterView<?> av, View v, int p, long id) {
214	public void onCreateContextMenu(ContextMenu menu, View v, ContextMenuInfo menuInfo) {
220	private void setContextMenuItems(Menu menu, View v) {
245	private boolean handleContextItemSelected(MenuItem item, int position) {
331	public void onSwitching(float progress) {
336	public void onSwitched(int position) {
438	public void onPopupMenu(View anchor, final int position) {
451	public boolean onMenuItemClick(MenuItem item) {

src/org/videolan/vlc/gui/audio/AudioPlayer.java

235	public boolean onItemLongClick(AdapterView<?> parent, View view,
249	public void onItemRemoved(int position) {
412	public void onStopTrackingTouch(SeekBar arg0) {
418	public void onStartTrackingTouch(SeekBar arg0) {
424	public void onProgressChanged(SeekBar sb, int prog, boolean fromUser) {
531	public void onMediaSwitched(int position) {
561	public void onMediaSwitched(int position) {

src/org/videolan/vlc/gui/audio/EqualizerFragment.java

186	public void onItemSelected(AdapterView<?> parent, View view, int pos, long id) {

```
202    public void onNothingSelected(AdapterView<?> parent) {
208    public void onStopTrackingTouch(SeekBar seekBar) {
212    public void onStartTrackingTouch(SeekBar seekBar) {
216    public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {
```

src/org/videolan/vlc/gui/audio/MediaComparators.java
```
30    public int compare(Media m1, Media m2) {
37    public int compare(Media m1, Media m2) {
44    public int compare(Media m1, Media m2) {
53    public int compare(Media m1, Media m2) {
63    public int compare(Media m1, Media m2) {
73    public int compare(Media m1, Media m2) {
```

src/org/videolan/vlc/gui/expandable/JumpToTime.java
```
90    public void onClick(View v) {
```

src/org/videolan/vlc/gui/expandable/SpeedSelector.java
```
68    public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {
75    public void onStartTrackingTouch(SeekBar seekBar) {
79    public void onStopTrackingTouch(SeekBar seekBar) {
85    public void onClick(View v) {
```

src/org/videolan/vlc/gui/expandable/TimeSleep.java
```
78    public void onClick(View v) {
94    public void onClick(View v) {
```

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src/org/videolan/vlc/gui/video/VideoGridAnimator.java

   65   public void onChildViewRemoved(View parent, View child) {

   70   public void onChildViewAdded(View parent, View child) {

 108   public void onAnimationStart(Animation animation) {

 113   public void onAnimationRepeat(Animation animation) {

 118   public void onAnimationEnd(Animation animation) {

src/org/videolan/vlc/gui/video/VideoGridFragment.java

 470   public void onReceive(Context context, Intent intent) {

src/org/videolan/vlc/gui/video/VideoPlayerActivity.java

 442   public boolean onEditorAction(TextView v, int actionId, KeyEvent event) {

 570   private void PAINTViewRoomMsgListener(XMPPConnection connection, String roomName) {

 872   public void setSurfaceSize(int width, int height, int visible_width, int visible_height, int sar_num, int sar_den) {

1174   public void onClick(DialogInterface dialog, int id) {

1194   public void onClick(DialogInterface dialog, int id) {

1204   public void onClick(DialogInterface dialog, int id) {

1215   private void handleVout(Message msg) {

1539   public void handleMessage(android.os.Message msg) {

1618   public boolean onTouch(View v, MotionEvent e) {

1664   public void onClick(DialogInterface dialog, int button) {

1692   public void onClick(DialogInterface dialog, int button) {

1825   public void onClick(View v) {

1840   public void onClick(DialogInterface dialog, int listPosition) {

1871   public void onClick(View v) {

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```
1887    public void onClick(DialogInterface dialog, int listPosition) {
1915    public void onClick(View v) {
2037    public void surfaceChanged(SurfaceHolder holder, int format, int width, int height) {
2051    public void surfaceCreated(SurfaceHolder holder) {
2056    public void surfaceDestroyed(SurfaceHolder holder) {
2064    public void surfaceChanged(SurfaceHolder holder, int format, int width, int height) {
2070    public void surfaceCreated(SurfaceHolder holder) {
2074    public void surfaceDestroyed(SurfaceHolder holder) {
2082    public void surfaceChanged(SurfaceHolder holder, int format, int width, int height) {
2088    public void surfaceCreated(SurfaceHolder holder) {
2100    public void surfaceDestroyed(SurfaceHolder holder) {
2587    public void showAdvancedOptions(View v) {
2637    public void onDismiss(DialogInterface dialog) {
2748    public void onClickOverlayTips(View v) {
2752    public void onClickDismissTips(View v) {
```

src/org/videolan/vlc/widget/AudioMediaSwitcher.java

```
  86    public void onSwitching(float progress) {
  92    public void onSwitched(int position) {
```

src/org/videolan/vlc/widget/AudioPlaylistItemViewGroup.java

```
  40    public void onSwitching(float progress) { }
  43    public void onSwitched(int position) {
```

src/org/videolan/vlc/widget/EqualizerBar.java

```
  70    public void onStartTrackingTouch(SeekBar seekBar) {
```

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| | 74 | public void onStopTrackingTouch(SeekBar seekBar) { |
| | 78 | public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) { |

src/org/videolan/vlc/widget/SlidingPaneLayout.java

| 1004 | public SavedState createFromParcel(Parcel in) { |
| 1009 | public SavedState[] newArray(int size) { |

| 2 Defect(s) | Do not call System.exit(). | Reliability | Priority 1 |
| 1 File(s) | | java | Effort 6m |

src/org/videolan/libvlc/LibVLC.java

| 124 | System.exit(1); |
| 128 | System.exit(1); |

| 96 Defect(s) | Cyclomatic complexity. | Maintainability | Priority 1 |
| 53 File(s) | | java | Effort 4h |

java-libs/WheelView/src/kankan/wheel/widget/WheelView.java

338	public void setCurrentItem(int index, boolean animated) {
604	public boolean onTouchEvent(MotionEvent event) {
639	private void doScroll(int delta) {
742	private boolean rebuildItems() {

src/easydarwin/android/service/CommandService.java

| 74 | public static ReceiveUnit parseReader(BufferedReader input) throws IOException, IllegalStateException, SocketException { |

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124   public static ReceiveUnit parseReader(SocketChannel channel) throws IOException, IllegalStateException, SocketException {

185   public void run() {

399   public void run() {

src/easydarwin/android/videostreaming/VideoStreamingFragment.java

595   private void popupContactList(/* String entries */) {

643   public void onClick(View view) {

974   public void surfaceCreated(final SurfaceHolder holder) {

979   public void onReceive(Context context, Intent intent) {

src/net/majorkernelpanic/streaming/Session.java

442   public void syncConfigure() throws CameraInUseException,

497   public void syncStart(int id) throws CameraInUseException,

src/net/majorkernelpanic/streaming/SessionBuilder.java

104   public Session build() {

src/net/majorkernelpanic/streaming/audio/AACStream.java

312   private void testADTS() throws IllegalStateException, IOException {

src/net/majorkernelpanic/streaming/rtp/AACADTSPacketizer.java

80   public void run() {

src/net/majorkernelpanic/streaming/rtp/AudioMediaCodecInputStream.java

59   public int read(byte[] buffer, int offset, int length) throws IOException {

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src/net/majorkernelpanic/streaming/rtp/H263Packetizer.java
      73   public void run() {

src/net/majorkernelpanic/streaming/rtp/H264Packetizer.java
    153   private void send() throws IOException, InterruptedException {
    276   private void resync() throws IOException {

src/net/majorkernelpanic/streaming/rtp/MediaCodecInputStream.java
     68   public int read(byte[] buffer, int offset, int length) throws IOException {

src/net/majorkernelpanic/streaming/rtp/RtpSocket.java
    332   public void run() {

src/net/majorkernelpanic/streaming/rtp/RtpThread.java
     43   public Response requestWithResponse(String request) throws InterruptedException {
    102   public void run() {

src/net/majorkernelpanic/streaming/rtsp/RtspClient.java
    259   public void startStream() {
    479   private void sendRequestAnnounce() throws IllegalStateException, SocketException, IOException {

src/net/majorkernelpanic/streaming/rtsp/RtspServer.java
    366   public void run() {
    430   public Response processRequest(Request request) throws IllegalStateException, IOException {

src/net/majorkernelpanic/streaming/rtsp/UriParser.java
     67   public static Session parse(String uri) throws IllegalStateException, IOException {

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src/net/majorkernelpanic/streaming/video/CodecManager.java

    74   public static Codecs findCodecsFormMimeType(String mimeType, boolean tryColorFormatSurface) {

  141   static private void findSupportedColorFormats(String mimeType) {

src/net/majorkernelpanic/streaming/video/H264Stream.java

  152   private MP4Config testMediaRecorderAPI() throws RuntimeException, IOException {

src/net/majorkernelpanic/streaming/video/VideoStream.java

  206   public synchronized void setFlashState(boolean state) {

  613   protected synchronized void createCamera() throws RuntimeException {

src/openfire/chat/service/UserServiceImpl.java

  71   public XMPPConnection userRegister(String username, String name, String email, String password,

src/org/videolan/android/ui/GridFragment.java

  340   private void ensureGrid() {

src/org/videolan/libvlc/LibVLC.java

  301   public int getDeblocking() {

src/org/videolan/libvlc/LibVlcUtil.java

  98   public static boolean hasCompatibleCPU(Context context)

  304   private static ElfData readLib(String path) {

  398   private static boolean readArmAttributes(RandomAccessFile in, ElfData elf) throws IOException {

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src/org/videolan/libvlc/Media.java

    143   private void extractTrackInfo(TrackInfo[] tracks) {

    215   private static String getValueWrapper(String string, UnknownStringType type) {

src/org/videolan/vlc/MediaDatabase.java

    531   public synchronized void updateMedia(String location, mediaColumn col,

src/org/videolan/vlc/MediaGroup.java

    91   private static void insertInto(ArrayList<MediaGroup> groups, Media media)

src/org/videolan/vlc/MediaLibrary.java

    144   public ArrayList<Media> getAudioItems(String name, String name2, int mode) {

    209   public void run() {

src/org/videolan/vlc/RemoteControlClientReceiver.java

    45   public void onReceive(Context context, Intent intent) {

src/org/videolan/vlc/VLCApplication.java

    44   public void onCreate() {

src/org/videolan/vlc/audio/AudioService.java

    293   private void changeAudioFocus(boolean gain) {

    336   public void onReceive(Context context, Intent intent) {

    438   public void handleMessage(Message msg) {

    541   public void handleMessage(Message msg) {

    700   private void showNotification() {

    832   private void determinePrevAndNextIndices(boolean expand) {

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src/org/videolan/vlc/audio/AudioServiceController.java

    90   public void bindAudioService(Context context, final AudioServiceConnectionListener connectionListerner) {

src/org/videolan/vlc/gui/DirectoryAdapter.java

   185   private void populateNode(DirectoryAdapter.Node n, String path, int depth) {

   301   public View getView(int position, View convertView, ViewGroup parent) {

   374   public int browse(String directoryName) {

src/org/videolan/vlc/gui/DirectoryViewFragment.java

   123   public boolean onContextItemSelected(MenuItem item) {

src/org/videolan/vlc/gui/PreferencesActivity.java

    70   protected void onCreate(Bundle savedInstanceState) {

src/org/videolan/vlc/gui/VLCMainActivity.java

   143   protected void onCreate(Bundle savedInstanceState) {

   352   protected void onResumeFragments() {

   509   public Fragment fetchSecondaryFragment(String id) {

src/org/videolan/vlc/gui/audio/AudioBrowserFragment.java

   245   private boolean handleContextItemSelected(MenuItem item, int position) {

src/org/videolan/vlc/gui/audio/AudioBrowserListAdapter.java

   132   private void calculateSections(boolean addSeparators) {

   224   public View getViewMedia(int position, View convertView, ViewGroup parent) {

src/org/videolan/vlc/gui/audio/AudioPlayer.java
      309   public synchronized void update() {
      621   public boolean onTouch(View v, MotionEvent event) {

src/org/videolan/vlc/gui/audio/AudioUtil.java
      224   public synchronized static Bitmap getCover(Context context, Media media, int width) {

src/org/videolan/vlc/gui/expandable/JumpToTime.java
       47   public JumpToTime(Context context, AttributeSet attrs) {

src/org/videolan/vlc/gui/video/VideoGridAnimator.java
      136   public void setAlpha(float alpha, View view)

src/org/videolan/vlc/gui/video/VideoGridFragment.java
      414   private void updateList() {

src/org/videolan/vlc/gui/video/VideoListAdapter.java
      134   public View getView(final int position, View convertView, ViewGroup parent) {

src/org/videolan/vlc/gui/video/VideoPlayerActivity.java
      284   protected void onCreate(Bundle savedInstanceState) {
      626   protected void onPause() {
      980   private int changeAudioFocus(boolean acquire) {
      987   public void onAudioFocusChange(int focusChange) {
    1039   public void handleMessage(Message msg) {
    1117   public void handleMessage(Message msg) {

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```
1236    private void changeSurfaceSize() {
2303    private void loadMedia() {
2532    private int getScreenOrientation(){
```

src/org/videolan/vlc/util/AndroidDevices.java
```
  82    public static String[] getStorageDirectories() {
```

src/org/videolan/vlc/util/BitmapUtil.java
```
  33    public static Bitmap cropBorders(Bitmap bitmap, int width, int height)
```

src/org/videolan/vlc/util/MurmurHash.java
```
 104    public static long hash64(final byte[] data, int length, int seed) {
```

src/org/videolan/vlc/util/Strings.java
```
  63    static String millisToString(long millis, boolean text) {
```

src/org/videolan/vlc/util/VLCInstance.java
```
  61    public static void updateLibVlcSettings(SharedPreferences pref) {
```

src/org/videolan/vlc/widget/AnimatedCoverView.java
```
  96    private void switchAnimation(Canvas canvas) {
```

src/org/videolan/vlc/widget/FlingViewGroup.java
```
 128    public boolean onInterceptTouchEvent(MotionEvent ev) {
 163    public boolean onTouchEvent(MotionEvent event) {
```

src/org/videolan/vlc/widget/SlidingPaneLayout.java

319   protected void onMeasure(int widthMeasureSpec, int heightMeasureSpec) {
432   protected void onLayout(boolean changed, int l, int t, int r, int b) {
507   public boolean onInterceptTouchEvent(MotionEvent ev) {
869   public void onViewDragStateChanged(int state) {

src/org/videolan/vlc/widget/VLCAppWidgetProvider.java
72   public void onReceive(Context context, Intent intent) {

| 63 Defect(s) | Avoid user-defined native methods. | Portability | Priority 1 |
| 3 File(s) | | java | Effort 6m |

src/net/majorkernelpanic/streaming/libs/JNIUtil.java
57   private static native void callMethod(String methodName, Object[] returnValue, Object... params);

src/org/videolan/libvlc/LibVLC.java
88   public native void attachSurface(Surface surface, IVideoPlayer player);
90   public native void detachSurface();
92   public native void attachSubtitlesSurface(Surface surface);
93   public native void detachSubtitlesSurface();
95   public native void attachPaintSurface(Surface surface);
96   public native void detachPaintSurface();
99   public native void eventVideoPlayerActivityCreated(boolean created);
230   public native void setSurface(Surface f);
362   private native int setNativeEqualizer(long mediaPlayer, float[] bands);
508   public native void setRate(float rate);
513   public native float getRate();

```
519    private native void nativeInit() throws LibVlcException;
525    private native void nativeDestroy();
530    public native void startDebugBuffer();
531    public native void stopDebugBuffer();
547    private native void playMRL(long instance, String mrl, String[] mediaOptions);
552    public native boolean isPlaying();
557    public native boolean isSeekable();
562    public native void play();
567    public native void pause();
572    public native void stop();
577    public native int getPlayerState();
582    public native int getVolume();
588    public native int setVolume(int volume);
594    public native long getTime();
601    public native long setTime(long time);
607    public native float getPosition();
613    public native void setPosition(float pos);
619    public native long getLength();
625    public native String version();
631    public native String compiler();
637    public native String changeset();
643    private native byte[] getThumbnail(long instance, String mrl, int i_width, int i_height);
648    private native boolean hasVideoTrack(long instance, String mrl);
650    private native TrackInfo[] readTracksInfo(long instance, String mrl);
652    public native TrackInfo[] readTracksInfoInternal();
```

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```
654    public native int getAudioTracksCount();
656    public native Map<Integer,String> getAudioTrackDescription();
658    public native Map<String, Object> getStats();
660    public native int getAudioTrack();
662    public native int setAudioTrack(int index);
664    public native int getVideoTracksCount();
666    public native int addSubtitleTrack(String path);
668    public native Map<Integer,String> getSpuTrackDescription();
670    public native int getSpuTrack();
672    public native int setSpuTrack(int index);
674    public native int getSpuTracksCount();
676    public static native String nativeToURI(String path);
678    public native static void sendMouseEvent( int action, int button, int x, int y);
694    public static native void nativeReadDirectory(String path, ArrayList<String> res);
696    public native static boolean nativeIsPathDirectory(String path);
718    private native void setEventHandler(EventHandler eventHandler);
720    private native void detachEventHandler();
722    public native float[] getBands();
724    public native String[] getPresets();
726    public native float[] getPreset(int index);
745    public native int getTitle();
746    public native void setTitle(int title);
747    public native int getChapterCountForTitle(int title);
748    public native int getTitleCount();
```

kiuwan

src/org/videolan/libvlc/MediaList.java

    117   private native int expandMedia(LibVLC libvlc_instance, int position, ArrayList<String> children);

    127   private native void loadPlaylist(LibVLC libvlc_instance, String mrl, ArrayList<String> items);

| 9 Defect(s)
1 File(s) | Close SQL resources when finishing using. | Reliability
java | Priority 1
Effort 30m |

src/org/videolan/vlc/MediaDatabase.java

    230   cursor = mDb.query(
    330   cursor = mDb.query(
    355   cursor = mDb.rawQuery(String.format(Locale.US,
    413   cursor = mDb.rawQuery(String.format(Locale.US,
    445   cursor = mDb.query(
    494   cursor = mDb.query(
    603   cursor = mDb.query(
    620   Cursor cursor = mDb.query(DIR_TABLE_NAME,
    648   Cursor cursor = mDb.query(SEARCHHISTORY_TABLE_NAME,

---

| 138 Defect(s)
41 File(s) | Do not use the printStackTrace method. | Efficiency
java | Priority 2
Effort 6m |

src/easydarwin/android/service/CommandService.java

    248   e.printStackTrace();
    251   e.printStackTrace();
    297   e.printStackTrace();

```
300    e.printStackTrace();
307    e.printStackTrace();
310    e.printStackTrace();
317    e.printStackTrace();
329    e.printStackTrace();
390    e.printStackTrace();
426    e.printStackTrace();
520    e.printStackTrace();
523    e.printStackTrace();
525    e.printStackTrace();
532    e.printStackTrace();
540    e.printStackTrace();
```

src/easydarwin/android/service/SettingsActivity.java
```
137    e.printStackTrace();
```

src/easydarwin/android/videostreaming/MultiRoom.java
```
 83    e.printStackTrace();
124    e.printStackTrace();
278    e.printStackTrace();
380    e.printStackTrace();
437    e.printStackTrace();
501    e.printStackTrace();
503    e.printStackTrace();
505    e.printStackTrace();
507    e.printStackTrace();
```

```
543    e.printStackTrace();
545    e.printStackTrace();
547    e.printStackTrace();
549    e.printStackTrace();
565    e.printStackTrace();
581    e.printStackTrace();
610    e.printStackTrace();
624    e.printStackTrace();
636    e.printStackTrace();
651    e.printStackTrace();
660    e.printStackTrace();
```

src/easydarwin/android/videostreaming/PaintView.java

```
 82    e.printStackTrace();
103    e.printStackTrace();
```

src/easydarwin/android/videostreaming/VideoStreamingFragment.java

```
185    e.printStackTrace();
462    e.printStackTrace();
488    e.printStackTrace();
551    e.printStackTrace();
684    e1.printStackTrace();
697    e.printStackTrace();
715    e.printStackTrace();
740    e.printStackTrace();
842    e.printStackTrace();
```

```
896    e.printStackTrace();
1291   e.printStackTrace();
1317   e.printStackTrace();
```

src/net/majorkernelpanic/streaming/MediaStream.java
```
304    e.printStackTrace();
360    e.printStackTrace();
365    e.printStackTrace();
370    e.printStackTrace();
```

src/net/majorkernelpanic/streaming/audio/AACStream.java
```
260    e.printStackTrace();
```

src/net/majorkernelpanic/streaming/rtp/AACADTSPacketizer.java
```
180    e.printStackTrace();
```

src/net/majorkernelpanic/streaming/rtp/AACLATMPacketizer.java
```
138    e.printStackTrace();
140    ignore.printStackTrace();
```

src/net/majorkernelpanic/streaming/rtp/AMRNBPacketizer.java
```
126    e.printStackTrace();
```

src/net/majorkernelpanic/streaming/rtp/AbstractPacketizer.java
```
186    e.printStackTrace();
189    e.printStackTrace();
197    e.printStackTrace();
```

src/net/majorkernelpanic/streaming/rtp/AudioMediaCodecInputStream.java

     117   e.printStackTrace();

src/net/majorkernelpanic/streaming/rtp/H264Packetizer.java

     138   e.printStackTrace();

     140   e.printStackTrace();

src/net/majorkernelpanic/streaming/rtp/MediaCodecInputStream.java

     106   e.printStackTrace();

src/net/majorkernelpanic/streaming/rtp/RtpSocket.java

     173   e.printStackTrace();

     374   e.printStackTrace();

     377   e.printStackTrace();

src/net/majorkernelpanic/streaming/rtp/RtpThread.java

     116   e.printStackTrace();

     170   e.printStackTrace();

     177   e.printStackTrace();

     185   e.printStackTrace();

     269   e.printStackTrace();

src/net/majorkernelpanic/streaming/rtsp/RtspClient.java

     291   e.printStackTrace();

     305   e.printStackTrace();

     330   e.printStackTrace();

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```
433   e.printStackTrace();
444   e.printStackTrace();
504   e.printStackTrace();
575   e.printStackTrace();
586   e.printStackTrace();
```

src/net/majorkernelpanic/streaming/rtsp/RtspServer.java
```
398   e.printStackTrace();
```

src/net/majorkernelpanic/streaming/video/H264Stream.java
```
201   e1.printStackTrace();
253   e.printStackTrace();
```

src/net/majorkernelpanic/streaming/video/VideoStream.java
```
339   e.printStackTrace();
509   e.printStackTrace();
```

src/openfire/chat/activity/ChatMainActivity.java
```
368   e.printStackTrace();
409   e.printStackTrace();
```

src/openfire/chat/activity/LoginActivity.java
```
165   e.printStackTrace();
172   e.printStackTrace();
```

src/openfire/chat/activity/RegisterActivity.java
```
119   e.printStackTrace();
```

```
126    e.printStackTrace();
149    e.printStackTrace();
```

src/openfire/chat/service/GetXMPPConnection.java
```
 46    e.printStackTrace();
```

src/openfire/chat/service/UserServiceImpl.java
```
151    e.printStackTrace();
```

src/org/videolan/libvlc/LibVlcUtil.java
```
186    ex.printStackTrace();
336    e.printStackTrace();
338    e.printStackTrace();
```

src/org/videolan/vlc/MediaLibrary.java
```
267    e.printStackTrace();
```

src/org/videolan/vlc/Thumbnailer.java
```
 77    e.printStackTrace();
190    e.printStackTrace();
```

src/org/videolan/vlc/VLCCrashHandler.java
```
 87    e.printStackTrace();
 98    e.printStackTrace();
104    e.printStackTrace();
```

src/org/videolan/vlc/audio/AudioService.java

```
 160    e.printStackTrace();
 634    e.printStackTrace();
 646    e.printStackTrace();
1440    e.printStackTrace();
1447    e.printStackTrace();
1470    e.printStackTrace();
1491    e.printStackTrace();
```

src/org/videolan/vlc/audio/AudioServiceController.java
```
 228    e.printStackTrace();
 231    e.printStackTrace();
 234    e.printStackTrace();
```

src/org/videolan/vlc/gui/AboutFragment.java
```
 166    e.printStackTrace();
```

src/org/videolan/vlc/gui/CommonDialogs.java
```
  66    e.printStackTrace();
```

src/org/videolan/vlc/gui/CompatErrorActivity.java
```
  73    e.printStackTrace();
  76    e.printStackTrace();
```

src/org/videolan/vlc/gui/DirectoryAdapter.java
```
 470    e.printStackTrace();
```

src/org/videolan/vlc/gui/NativeCrashActivity.java

```
82    e.printStackTrace();
121   e.printStackTrace();
124   e.printStackTrace();
```

src/org/videolan/vlc/gui/VLCMainActivity.java
```
182   e.printStackTrace();
806   e.printStackTrace();
816   e.printStackTrace();
913   e.printStackTrace();
```

src/org/videolan/vlc/gui/audio/AudioUtil.java
```
278   e.printStackTrace();
```

src/org/videolan/vlc/gui/audio/EqualizerFragment.java
```
119   e.printStackTrace();
```

src/org/videolan/vlc/gui/video/VideoPlayerActivity.java
```
556   e.printStackTrace();
562   e.printStackTrace();
577   e.printStackTrace();
1552  e.printStackTrace();
1597  e.printStackTrace();
1680  e.printStackTrace();
2116  e.printStackTrace();
```

src/org/videolan/vlc/util/Preferences.java

kiuwan

```
42   e.printStackTrace();
55   e.printStackTrace();
```

120 Defect(s) 104 File(s)	Provide Javadoc comments for public classes and interfaces.	Maintainability java	Priority 2 Effort 30m

src/easydarwin/android/service/CommandService.java
```
179   public class CommandService extends Service {
180   public class BlockCommandThread extends Thread {
```

src/easydarwin/android/service/EasyCameraApp.java
```
13   public class EasyCameraApp extends Application {
```

src/easydarwin/android/videostreaming/MultiRoom.java
```
45   public class MultiRoom {
462   public class MyAsyncTask extends AsyncTask<String, Integer, Double>{
514   public class StreamAsyncTask extends AsyncTask<String, Integer, Double>{
```

src/easydarwin/android/videostreaming/PaintView.java
```
25   public class PaintView extends View implements OnTouchListener {
```

src/easydarwin/android/videostreaming/VideoStreamingFragment.java
```
115   public class VideoStreamingFragment extends Fragment implements Callback,
```

src/net/majorkernelpanic/streaming/exceptions/CameraInUseException.java
```
23   public class CameraInUseException extends RuntimeException {
```

src/net/majorkernelpanic/streaming/exceptions/ConfNotSupportedException.java
    23   public class ConfNotSupportedException extends RuntimeException {

src/net/majorkernelpanic/streaming/exceptions/InvalidSurfaceException.java
    23   public class InvalidSurfaceException extends RuntimeException {

src/net/majorkernelpanic/streaming/exceptions/StorageUnavailableException.java
    25   public class StorageUnavailableException extends IOException {

src/net/majorkernelpanic/streaming/gl/SurfaceManager.java
    52   public class SurfaceManager {

src/net/majorkernelpanic/streaming/libs/JNIUtil.java
     3   public class JNIUtil {

src/net/majorkernelpanic/streaming/rtp/RtpThread.java
    20   public class RtpThread extends Thread {

src/net/majorkernelpanic/streaming/rtsp/RtspClient.java
   741   public static class Response {

src/net/majorkernelpanic/streaming/rtsp/RtspServer.java
   572   public static class Request {
   611   public static class Response {

src/net/majorkernelpanic/streaming/video/CodecManager.java
    34   public class CodecManager {

kiuwan

src/openfire/chat/activity/ChatMainActivity.java

71   public class ChatMainActivity extends Activity {

src/openfire/chat/activity/LoginActivity.java

38   public class LoginActivity extends Activity implements OnClickListener {

src/openfire/chat/activity/RegisterActivity.java

25   public class RegisterActivity extends Activity {

src/openfire/chat/adapter/FriendsAdapter.java

18   public class FriendsAdapter extends BaseAdapter {

src/openfire/chat/service/GetXMPPConnection.java

8   public class GetXMPPConnection {

src/openfire/chat/service/ServiceException.java

3   public class ServiceException extends Exception{

src/openfire/chat/service/UserService.java

5   public interface UserService {

src/openfire/chat/service/UserServiceImpl.java

24   public class UserServiceImpl implements UserService {

src/org/videolan/android/ui/SherlockGridFragment.java

25   public class SherlockGridFragment extends GridFragment {

src/org/videolan/libvlc/AudioOutput.java

28   public class AudioOutput {

src/org/videolan/libvlc/EventHandler.java
29   public class EventHandler {

src/org/videolan/libvlc/IVideoPlayer.java
23   public interface IVideoPlayer {

src/org/videolan/libvlc/LibVLC.java
32   public class LibVLC {
728   public static interface OnNativeCrashListener {

src/org/videolan/libvlc/LibVlcUtil.java
39   public class LibVlcUtil {
269   public static class MachineSpecs {

src/org/videolan/libvlc/Media.java
31   public class Media implements Comparable<Media> {

src/org/videolan/libvlc/TrackInfo.java
23   public class TrackInfo {

src/org/videolan/vlc/MediaDatabase.java
47   public class MediaDatabase {

src/org/videolan/vlc/MediaGroup.java
29   public class MediaGroup extends Media {

kiuwan

src/org/videolan/vlc/MediaLibrary.java

    52   public class MediaLibrary {

src/org/videolan/vlc/PhoneStateReceiver.java

    28   public class PhoneStateReceiver extends BroadcastReceiver {

src/org/videolan/vlc/Thumbnailer.java

    47   public class Thumbnailer implements Runnable {

src/org/videolan/vlc/VLCApplication.java

    35   public class VLCApplication extends Application {

src/org/videolan/vlc/VLCCrashHandler.java

    39   public class VLCCrashHandler implements UncaughtExceptionHandler {

src/org/videolan/vlc/audio/AudioService.java

    90   public class AudioService extends Service {

src/org/videolan/vlc/audio/AudioServiceController.java

    44   public class AudioServiceController implements IAudioPlayerControl {

src/org/videolan/vlc/gui/AboutFragment.java

    48   public class AboutFragment extends Fragment {

src/org/videolan/vlc/gui/BrowserActivity.java

    56   public class BrowserActivity extends ListActivity {

src/org/videolan/vlc/gui/BrowserAdapter.java

kiuwan

44   public class BrowserAdapter extends ArrayAdapter<File>

src/org/videolan/vlc/gui/CommonDialogs.java
50   public class CommonDialogs {

src/org/videolan/vlc/gui/CompatErrorActivity.java
23   public class CompatErrorActivity extends Activity {
54   public static class AsyncHttpRequest extends AsyncTask<String, String, Boolean> {

src/org/videolan/vlc/gui/DebugLogActivity.java
35   public class DebugLogActivity extends Activity {

src/org/videolan/vlc/gui/DirectoryAdapter.java
52   public class DirectoryAdapter extends BaseAdapter {

src/org/videolan/vlc/gui/DirectoryViewFragment.java
55   public class DirectoryViewFragment extends ListFragment implements IRefreshable, ISortable {

src/org/videolan/vlc/gui/HistoryAdapter.java
43   public class HistoryAdapter extends BaseAdapter {

src/org/videolan/vlc/gui/HistoryFragment.java
42   public class HistoryFragment extends ListFragment implements IRefreshable {

src/org/videolan/vlc/gui/NativeCrashActivity.java
26   public class NativeCrashActivity extends Activity {
96   public class AsyncHttpRequest extends AsyncTask<String, String, Boolean> {

kiuwan

src/org/videolan/vlc/gui/PreferencesActivity.java

    59   public class PreferencesActivity extends PreferenceActivity implements OnSharedPreferenceChangeListener {

src/org/videolan/vlc/gui/SearchFragment.java

    50   public class SearchFragment extends ListFragment {

src/org/videolan/vlc/gui/SearchHistoryAdapter.java

    30   public class SearchHistoryAdapter extends ArrayAdapter<String> {

src/org/videolan/vlc/gui/SearchResultAdapter.java

    34   public class SearchResultAdapter extends ArrayAdapter<Media>

src/org/videolan/vlc/gui/SidebarAdapter.java

    44   public class SidebarAdapter extends BaseAdapter {

    47   public static class SidebarEntry {

src/org/videolan/vlc/gui/VLCMainActivity.java

    95   public class VLCMainActivity extends ActionBarActivity {

src/org/videolan/vlc/gui/audio/AudioAlbumsSongsFragment.java

    65   public class AudioAlbumsSongsFragment extends Fragment {

src/org/videolan/vlc/gui/audio/AudioBrowserFragment.java

    68   public class AudioBrowserFragment extends Fragment {

src/org/videolan/vlc/gui/audio/AudioBrowserListAdapter.java

49   public class AudioBrowserListAdapter extends BaseAdapter implements SectionIndexer {

464   public interface ContextPopupMenuListener {

src/org/videolan/vlc/gui/audio/AudioPlayer.java

68   public class AudioPlayer extends Fragment implements IAudioPlayer {

src/org/videolan/vlc/gui/audio/AudioPlaylistAdapter.java

47   public class AudioPlaylistAdapter extends ArrayAdapter<Media> {

src/org/videolan/vlc/gui/audio/AudioPlaylistView.java

38   public class AudioPlaylistView extends ListView {

233   public interface OnItemDraggedListener {

241   public interface OnItemRemovedListener {

src/org/videolan/vlc/gui/audio/AudioUtil.java

57   public class AudioUtil {

src/org/videolan/vlc/gui/audio/EqualizerFragment.java

53   public class EqualizerFragment extends Fragment {

src/org/videolan/vlc/gui/audio/MediaComparators.java

26   public class MediaComparators {

src/org/videolan/vlc/gui/audio/widget/CoverMediaSwitcher.java

33   public class CoverMediaSwitcher extends AudioMediaSwitcher {

src/org/videolan/vlc/gui/audio/widget/HeaderMediaSwitcher.java

34   public class HeaderMediaSwitcher extends AudioMediaSwitcher {

src/org/videolan/vlc/gui/expandable/JumpToTime.java
40   public class JumpToTime extends ExpandableLayout {

src/org/videolan/vlc/gui/expandable/SpeedSelector.java
36   public class SpeedSelector extends ExpandableLayout {

src/org/videolan/vlc/gui/expandable/TimeSleep.java
43   public class TimeSleep extends ExpandableLayout {

src/org/videolan/vlc/gui/video/MediaInfoAdapter.java
34   public class MediaInfoAdapter extends ArrayAdapter<TrackInfo> {

src/org/videolan/vlc/gui/video/MediaInfoFragment.java
52   public class MediaInfoFragment extends ListFragment {

src/org/videolan/vlc/gui/video/VideoGridAnimator.java
38   public class VideoGridAnimator {

src/org/videolan/vlc/gui/video/VideoGridFragment.java
76   public class VideoGridFragment extends SherlockGridFragment implements ISortable {

src/org/videolan/vlc/gui/video/VideoListAdapter.java
48   public class VideoListAdapter extends ArrayAdapter<Media>

src/org/videolan/vlc/gui/video/VideoPlayerActivity.java
132   public class VideoPlayerActivity extends Activity implements IVideoPlayer {

src/org/videolan/vlc/interfaces/IAudioPlayer.java

      23   public interface IAudioPlayer {

src/org/videolan/vlc/interfaces/IAudioPlayerControl.java

      27   public interface IAudioPlayerControl {

src/org/videolan/vlc/interfaces/IRefreshable.java

      23   public interface IRefreshable {

src/org/videolan/vlc/interfaces/ISortable.java

      23   public interface ISortable {

src/org/videolan/vlc/interfaces/OnEqualizerBarChangeListener.java

      23   public interface OnEqualizerBarChangeListener {

src/org/videolan/vlc/interfaces/OnExpandableListener.java

      23   public interface OnExpandableListener {

src/org/videolan/vlc/util/AndroidDevices.java

      42   public class AndroidDevices {

src/org/videolan/vlc/util/BitmapCache.java

      33   public class BitmapCache {

src/org/videolan/vlc/util/BitmapUtil.java

      30   public class BitmapUtil {

kiuwan

src/org/videolan/vlc/util/CustomDirectories.java
> 31   public class CustomDirectories {

src/org/videolan/vlc/util/Logcat.java
> 31   public class Logcat {

src/org/videolan/vlc/util/Preferences.java
> 29   public class Preferences {

src/org/videolan/vlc/util/Strings.java
> 27   public class Strings {

src/org/videolan/vlc/util/Util.java
> 41   public class Util {

src/org/videolan/vlc/util/VLCInstance.java
> 34   public class VLCInstance {

src/org/videolan/vlc/util/VLCRunnable.java
> 22   public abstract class VLCRunnable implements Runnable {

src/org/videolan/vlc/util/WeakHandler.java
> 27   public abstract class WeakHandler<T> extends Handler {

src/org/videolan/vlc/widget/AnimatedCoverView.java
> 35   public class AnimatedCoverView extends View {

src/org/videolan/vlc/widget/AudioMediaSwitcher.java

```
31      public abstract class AudioMediaSwitcher extends FlingViewGroup {
135     public static interface AudioMediaSwitcherListener {
```

src/org/videolan/vlc/widget/AudioPlaylistItemViewGroup.java

```
27      public class AudioPlaylistItemViewGroup extends FlingViewGroup {
67      public interface OnItemSlidedListener {
```

src/org/videolan/vlc/widget/EqualizerBar.java

```
34      public class EqualizerBar extends LinearLayout {
```

src/org/videolan/vlc/widget/ExpandableLayout.java

```
35      public class ExpandableLayout extends LinearLayout {
```

src/org/videolan/vlc/widget/FlingViewGroup.java

```
32      public class FlingViewGroup extends ViewGroup {
279     public static interface ViewSwitchListener {
```

src/org/videolan/vlc/widget/HeaderScrollView.java

```
33      public class HeaderScrollView extends HorizontalScrollView {
```

src/org/videolan/vlc/widget/SlidingPaneLayout.java

```
55      public class SlidingPaneLayout extends ViewGroup {
950     public static class LayoutParams extends ViewGroup.MarginLayoutParams {
```

src/org/videolan/vlc/widget/VLCAppWidgetProvider.java

```
38      public class VLCAppWidgetProvider extends AppWidgetProvider {
```

kiuwan

src/org/videolan/vlc/widget/VerticalSeekBar.java
      29   public class VerticalSeekBar extends SeekBar {

| 70 Defect(s) | Avoid catch blocks with empty bodies. | Reliability | Priority 2 |
| 30 File(s) | | java | Effort 30m |

src/easydarwin/android/videostreaming/VideoStreamingFragment.java
    1133   } catch (ClassNotFoundException e) {

src/net/majorkernelpanic/streaming/MediaStream.java
    344   } catch (IOException e1) {

src/net/majorkernelpanic/streaming/Session.java
    429   } catch (Exception e) {
    484   } catch (Exception e) {

src/net/majorkernelpanic/streaming/audio/AACStream.java
    362   } catch (InterruptedException e) {

src/net/majorkernelpanic/streaming/audio/AudioQuality.java
    72   } catch (IndexOutOfBoundsException ignore) {

src/net/majorkernelpanic/streaming/gl/SurfaceView.java
    175   } catch (InterruptedException ignore) {

src/net/majorkernelpanic/streaming/rtp/AACADTSPacketizer.java
    63   } catch (IOException ignore) {

```
68    } catch (InterruptedException e) {
176   } catch (IOException e) {
181   } catch (InterruptedException ignore) {
```

src/net/majorkernelpanic/streaming/rtp/AACLATMPacketizer.java
```
62    } catch (IOException ignore) {
67    } catch (InterruptedException e) {
135   } catch (IOException e) {
```

src/net/majorkernelpanic/streaming/rtp/AMRNBPacketizer.java
```
67    } catch (IOException ignore) {
72    } catch (InterruptedException e) {
124   } catch (IOException e) {
```

src/net/majorkernelpanic/streaming/rtp/H263Packetizer.java
```
61    } catch (IOException ignore) {
66    } catch (InterruptedException e) {
138   } catch (IOException e) {
139   } catch (InterruptedException e) {
```

src/net/majorkernelpanic/streaming/rtp/H264Packetizer.java
```
76    } catch (IOException e) {
81    } catch (InterruptedException e) {
```

src/net/majorkernelpanic/streaming/rtsp/RtcpDeinterleaver.java
```
23    } catch (IOException e) {}
```

```
38    } catch (IOException ignore) {}
```

src/net/majorkernelpanic/streaming/rtsp/RtspClient.java
```
377   } catch (Exception ignore) {
381   } catch (Exception ignore) {
713   } catch (NoSuchAlgorithmException ignore) {
714   } catch (UnsupportedEncodingException e) {
```

src/net/majorkernelpanic/streaming/rtsp/RtspServer.java
```
182   } catch (Exception e) {
340   } catch (IOException e) {}
343   } catch (InterruptedException ignore) {}
424   } catch (IOException ignore) {}
```

src/net/majorkernelpanic/streaming/video/CodecManager.java
```
87    } catch (Exception e) {}
92    } catch (Exception e) {}
112   } catch (Exception e) {}
119   } catch (Exception e) {}
```

src/net/majorkernelpanic/streaming/video/H264Stream.java
```
192   } catch (Exception e) {
257   } catch (Exception e) {
271   } catch (Exception e) {
```

src/net/majorkernelpanic/streaming/video/VideoQuality.java

kiuwan

```
96    catch (IndexOutOfBoundsException ignore) {}
```

src/net/majorkernelpanic/streaming/video/VideoStream.java
```
798    } catch (InterruptedException e) {
```

src/openfire/chat/activity/ChatMainActivity.java
```
355    } catch (Exception e) {
498    } catch (ClassNotFoundException e) {
```

src/org/videolan/libvlc/LibVlcUtil.java
```
121    } catch (Exception e) { }
343    } catch (IOException e) {
```

src/org/videolan/libvlc/Media.java
```
239    } catch (ClassNotFoundException e) {
240    } catch (IllegalArgumentException e) {
241    } catch (IllegalAccessException e) {
242    } catch (NoSuchFieldException e) {
243    } catch (NoSuchMethodException e) {
244    } catch (InvocationTargetException e) {
```

src/org/videolan/vlc/audio/AudioService.java
```
775    catch (NoSuchMethodError e){
```

src/org/videolan/vlc/gui/DirectoryViewFragment.java
```
194    } catch (IOException e) {
```

kiuwan

src/org/videolan/vlc/gui/PreferencesActivity.java
```
314    } catch(Exception e){}
```

src/org/videolan/vlc/gui/VLCMainActivity.java
```
432    } catch (IllegalArgumentException e) {}
```

src/org/videolan/vlc/gui/video/VideoGridFragment.java
```
409    } catch (InterruptedException e) {
410    } catch (BrokenBarrierException e) {
```

src/org/videolan/vlc/gui/video/VideoPlayerActivity.java
```
682    } catch(IOException e) {}
2488   } catch(ClassNotFoundException e) {}
2489   catch (StreamCorruptedException e) {}
2490   catch (IOException e) {}
2500   } catch (UnsupportedEncodingException e) {
2501   } catch (IllegalArgumentException e) {
```

src/org/videolan/vlc/util/AndroidDevices.java
```
128    catch (FileNotFoundException e) {}
129    catch (IOException e) {}
135    catch (IOException e) {}
```

src/org/videolan/vlc/util/Logcat.java
```
64     }catch(Exception e) {}
```

src/org/videolan/vlc/widget/SlidingPaneLayout.java

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560   catch (IllegalArgumentException ex) { }
561   catch (ArrayIndexOutOfBoundsException ex) { }

---

4 Defect(s)
4 File(s)

Duplicated code: medium block

Maintainability
java

Priority 2
Effort 30m

src/easydarwin/android/videostreaming/VideoStreamingFragment.java

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```
1060   }

       /**
        * Configure the provider manager
        *
        * @param pm
        */
       public void configureProviderManager(ProviderManager pm) {

       // Private Data Storage
       pm.addIQProvider("query", "jabber:iq:private",
       new PrivateDataManager.PrivateDataIQProvider());
       // Time
       try {
       pm.addIQProvider("query", "jabber:iq:time",
       Class.forName("org.jivesoftware.smackx.packet.Time"));
       } catch (ClassNotFoundException e) {
       Log.w("TestClient",
       "Can't load class for org.jivesoftware.smackx.packet.Time");
       }

       // Roster Exchange
       pm.addExtensionProvider("x", "jabber:x:roster",
       new RosterExchangeProvider());
       // Message Events
       pm.addExtensionProvider("x", "jabber:x:event",
       new MessageEventProvider());
       // Chat State
       pm.addExtensionProvider("active",
       "http://jabber.org/protocol/chatstates",
       new ChatStateExtension.Provider());
```

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```
pm.addExtensionProvider("composing",
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());
pm.addExtensionProvider("paused",
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());
pm.addExtensionProvider("inactive",
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());
pm.addExtensionProvider("gone",
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());
// XHTML
pm.addExtensionProvider("html", "http://jabber.org/protocol/xhtml-im",
new XHTMLExtensionProvider());
// Group Chat Invitations
pm.addExtensionProvider("x", "jabber:x:conference",
new GroupChatInvitation.Provider());
// Service Discovery # Items
pm.addIQProvider("query", "http://jabber.org/protocol/disco#items",
new DiscoverItemsProvider());
// Service Discovery # Info
pm.addIQProvider("query", "http://jabber.org/protocol/disco#info",
new DiscoverInfoProvider());
// Data Forms
pm.addExtensionProvider("x", "jabber:x:data", new DataFormProvider());
// MUC User
pm.addExtensionProvider("x", "http://jabber.org/protocol/muc#user",
new MUCUserPr
```

src/openfire/chat/activity/ChatMainActivity.java

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```
413   }

      public void configureProviderManager(ProviderManager pm) {

      // Private Data Storage
      pm.addIQProvider("query", "jabber:iq:private",
      new PrivateDataManager.PrivateDataIQProvider());

      // Time
      try {
      pm.addIQProvider("query", "jabber:iq:time",
      Class.forName("org.jivesoftware.smackx.packet.Time"));
      } catch (ClassNotFoundException e) {
      Log.w("TestClient",
      "Can't load class for org.jivesoftware.smackx.packet.Time");
      }

      // Roster Exchange
      pm.addExtensionProvider("x", "jabber:x:roster",
      new RosterExchangeProvider());

      // Message Events
      pm.addExtensionProvider("x", "jabber:x:event",
      new MessageEventProvider());

      // Chat State
      pm.addExtensionProvider("active",
      "http://jabber.org/protocol/chatstates",
      new ChatStateExtension.Provider());

      pm.addExtensionProvider("composing",
```

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```
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());

pm.addExtensionProvider("paused",
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());

pm.addExtensionProvider("inactive",
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());

pm.addExtensionProvider("gone",
"http://jabber.org/protocol/chatstates",
new ChatStateExtension.Provider());

// XHTML
pm.addExtensionProvider("html", "http://jabber.org/protocol/xhtml-im",
new XHTMLExtensionProvider());

// Group Chat Invitations
pm.addExtensionProvider("x", "jabber:x:conference",
new GroupChatInvitation.Provider());

// Service Discovery # Items
pm.addIQProvider("query", "http://jabber.org/protocol/disco#items",
new DiscoverItemsProvider());

// Service Discovery # Info
pm.addIQProvider("query", "http://jabber.org/protocol/disco#info",
new DiscoverInfoProvider());
```

```
// Data Forms
pm.addExtensionProvider("x", "jabber:x:data", new DataFormProvider());

// MUC User
pm.addExtensionProvider("x", "http://jabber.org/protocol/muc#user",
new MUCUserProvider());

// MUC Admin
pm.addIQProvider("query
```

src/org/videolan/vlc/gui/AboutFragment.java

```
96   addNewTab(mTabHost, "licence", getResources().getString(R.string.licence));

         mTabHost.setCurrentTab(mCurrentTab);
         mFlingViewGroup.snapToScreen(mCurrentTab);

         mTabHost.setOnTabChangedListener(new TabHost.OnTabChangeListener() {
            @Override
            public void onTabChanged(String tabId) {
               mCurrentTab = mTabHost.getCurrentTab();
               mFlingViewGroup.smoothScrollTo(mCurrentTab);
            }
         });

         mFlingViewGroup.setOnViewSwitchedListener(new FlingViewGroup.ViewSwitchListener() {
            @Override
            public void onSwitching(float progress) { }
            @Override
            public void onSwitched(int position) {
               mTabHost.setCurrentTab(position);
            }
            @Override
            public void onTouchDown() {}
            @Override
            public void onTouchUp() {}
            @Override
            public void onTouchClick() {}
            @Override
            public void onBackSwitched() {
               VLCMainActivity activity = (VLCMainActivity)getActivity();
               activity.popSecondaryFragment();
            }
```

```java
        });

        return v;
    }

    private static class DummyContentFactory implements TabHost.TabContentFactory {
        private final Context mContext;
        public DummyContentFactory(Context ctx) {
            mContext = ctx;
        }
        @Override
        public View createTabContent(String tag) {
            View dummy = new View(mContext);
            return dummy;
        }
    }

    private void addNewTab(TabHost tabHost, String tag, String title) {
        DummyContentFactory dcf = new DummyContentFactory(tabHost.getContext());
        TabSpec tabSpec = tabHost.newTabSpec(tag);
        tabSpec.setIndicator(getNewTabIndicator(tabHost.getContext(), title));
        tabSpec.setContent(dcf);
        tabHost.addTab(tabSpec);
    }

    private View getNewTabIndicator(Context context, String title) {
        View v = LayoutInflater.from(c
```

src/org/videolan/vlc/gui/audio/AudioAlbumsSongsFragment.java

```
136    addNewTab(mTabHost, "songs", v.getResources().getString(R.string.songs));

            mTabHost.setCurrentTab(mCurrentTab);
            mFlingViewGroup.snapToScreen(mCurrentTab);

            mTabHost.setOnTabChangedListener(new TabHost.OnTabChangeListener() {
               @Override
               public void onTabChanged(String tabId) {
                  mCurrentTab = mTabHost.getCurrentTab();
                  mFlingViewGroup.smoothScrollTo(mCurrentTab);
               }
            });

            mFlingViewGroup.setOnViewSwitchedListener(new FlingViewGroup.ViewSwitchListener() {
               @Override
               public void onSwitching(float progress) { }
               @Override
               public void onSwitched(int position) {
                  mTabHost.setCurrentTab(position);
               }
               @Override
               public void onTouchDown() {}
               @Override
               public void onTouchUp() {}
               @Override
               public void onTouchClick() {}
               @Override
               public void onBackSwitched() {
                  VLCMainActivity activity = (VLCMainActivity)getActivity();
                  activity.popSecondaryFragment();
               }
```

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```
    });

    return v;
}

private static class DummyContentFactory implements TabHost.TabContentFactory {
    private final Context mContext;
    public DummyContentFactory(Context ctx) {
        mContext = ctx;
    }
    @Override
    public View createTabContent(String tag) {
        View dummy = new View(mContext);
        return dummy;
    }
}

private void addNewTab(TabHost tabHost, String tag, String title) {
    DummyContentFactory dcf = new DummyContentFactory(tabHost.getContext());
    TabSpec tabSpec = tabHost.newTabSpec(tag);
    tabSpec.setIndicator(getNewTabIndicator(tabHost.getContext(), title));
    tabSpec.setContent(dcf);
    tabHost.addTab(tabSpec);
}

private View getNewTabIndicator(Context context, String title) {
    View v = LayoutInflater.from(con
```

51 Defect(s)	Avoid public native methods.	Security	Priority 1
1 File(s)		java	Effort 4h

src/org/videolan/libvlc/LibVLC.java

88	public native void attachSurface(Surface surface, IVideoPlayer player);
90	public native void detachSurface();
92	public native void attachSubtitlesSurface(Surface surface);
93	public native void detachSubtitlesSurface();
95	public native void attachPaintSurface(Surface surface);
96	public native void detachPaintSurface();
99	public native void eventVideoPlayerActivityCreated(boolean created);
230	public native void setSurface(Surface f);
508	public native void setRate(float rate);
513	public native float getRate();
530	public native void startDebugBuffer();
531	public native void stopDebugBuffer();
552	public native boolean isPlaying();
557	public native boolean isSeekable();
562	public native void play();
567	public native void pause();
572	public native void stop();
577	public native int getPlayerState();
582	public native int getVolume();
588	public native int setVolume(int volume);
594	public native long getTime();

```
601    public native long setTime(long time);
607    public native float getPosition();
613    public native void setPosition(float pos);
619    public native long getLength();
625    public native String version();
631    public native String compiler();
637    public native String changeset();
652    public native TrackInfo[] readTracksInfoInternal();
654    public native int getAudioTracksCount();
656    public native Map<Integer,String> getAudioTrackDescription();
658    public native Map<String, Object> getStats();
660    public native int getAudioTrack();
662    public native int setAudioTrack(int index);
664    public native int getVideoTracksCount();
666    public native int addSubtitleTrack(String path);
668    public native Map<Integer,String> getSpuTrackDescription();
670    public native int getSpuTrack();
672    public native int setSpuTrack(int index);
674    public native int getSpuTracksCount();
676    public static native String nativeToURI(String path);
678    public native static void sendMouseEvent( int action, int button, int x, int y);
694    public static native void nativeReadDirectory(String path, ArrayList<String> res);
696    public native static boolean nativeIsPathDirectory(String path);
722    public native float[] getBands();
724    public native String[] getPresets();
```

```
726    public native float[] getPreset(int index);
745    public native int getTitle();
746    public native void setTitle(int title);
747    public native int getChapterCountForTitle(int title);
748    public native int getTitleCount();
```

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ABOUT OPTIMYTH

Optimyth is an independent software company specialized in solutions to support large companies with their rationalization, quality and productivity management initiatives whilst improving the overall maintainability of the software estate. Our solutions raise the quality and increase the performance of business systems. They improve the efficiency, cost control and productivity within an organization, thus achieving maximum IT value.

These solutions are based on our state of the art checKing products: an Integrated Application Quality Management Portal which aggregates information from all the stages of a development life cycle into one "single pane of glass". And, an Application Inventory Management system that allows companies to untangle the complexity of their application through automatic discovery of software components, and the relationships between them at different levels, enabling rationalization initiatives and impact analysis capabilities to reduce maintenance costs.

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