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## android-make whatsapp call



I want to make a WhatsApp call to a specific user. I tried this and it doesn't work:

```
Uri uri = Uri.parse("callto:" + phoneNUmber);
Intent i = new Intent(Intent.ACTION_CALL, uri);
i.setPackage("com.whatsapp");
startActivity(i);
```

I know how to create a WhatsApp message, the code is similar and it works:

```
Uri uri = Uri.parse("smsto:" + phoneNUmber);
Intent i = new Intent(Intent.ACTION_SENDTO, uri);
i.setPackage("com.whatsapp");
startActivity(i);
```

java android whatsapp

edited Jul 29 '16 at 12:02



Keshan De Silva

678 ● 1 ● 8 ● 23

asked Jul 29 '16 at 9:38



israelbenh

30 ● 1 ● 9

Can you please update your question with relevant error logs/debug information. – Keshan De Silva Jul 29 '16 at 11:07

Did you add the relevant `permissions` to the `manifest` ? – CodeWalker Jul 29 '16 at 13:09

@LancePreston yes – israelbenh Jul 29 '16 at 13:24

## 5 Answers

Simple solution is, Query `ContactContract.Data` for the `_id` and `MIME` type.

```
ContentResolver resolver = context.getContentResolver();
cursor = resolver.query(
    ContactsContract.Data.CONTENT_URI,
    null, null, null,
    ContactsContract.Contacts.DISPLAY_NAME);

//Now read data from cursor Like

while (cursor.moveToNext()) {
    long _id = cursor.getLong(cursor.getColumnIndex(ContactsContract.Data._ID));
    String displayName =
        cursor.getString(cursor.getColumnIndex(ContactsContract.Data.DISPLAY_NAME));
    String mimeType =
        cursor.getString(cursor.getColumnIndex(ContactsContract.Data.MIMETYPE));

    Log.d("Data", "_id+ " " + displayName + " " + mimeType );
}
```

The output will be like the following

12561 Snow vnd.android.cursor.item/vnd.com.whatsapp.profile

12562 Snow vnd.android.cursor.item/vnd.com.whatsapp.voip.call

Now save in DB or somewhere else only those `_ids` whose `MIME` type is `vnd.android.cursor.item/vnd.com.whatsapp.voip.call`

And then you initiate Whatsapp call with those contacts like this way

```
Intent intent = new Intent();
intent.setAction(Intent.ACTION_VIEW);

// the _ids you save goes here at the end of /data/12562
intent.setDataAndType(Uri.parse("content://com.android.contacts/data/_id"),
    "vnd.android.cursor.item/vnd.com.whatsapp.voip.call");
intent.setPackage("com.whatsapp");

startActivity(intent);
```

answered Jul 30 '16 at 14:16



Adnan Khan  
148 ● 7

man its work!!! Thank you!!!!!! – israelbenh Jul 30 '16 at 18:53

It's really helpful and great. Thank you very much. – [Ishan Jain](#) Sep 30 '16 at 6:26

My two cents, please check the MIME type for smooth functioning. – [Skynet](#) Jan 11 at 12:36

how to do whatsapp video call like viop call using intent.? – [akhil batlawala](#) Apr 25 at 6:52

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To make WhatsApp video call use below mime-string

```
String mimeType = "video/quicktime"; // for video call
```

To make WhatsApp voice call use below mime-string

```
String mimeType = "vnd.android.cursor.item/vnd.com.whatsapp.voip.call"; // for voice  
call String
```

Use Below Code

```
String displayName = null;
    String name="ABC" // here you can give static name.
    Long _id;
    ContentResolver resolver = getApplicationContext().getContentResolver();
    cursor = resolver.query(ContactsContract.Data.CONTENT_URI, null, null, null,
ContactsContract.Contacts.DISPLAY_NAME);
    while (cursor.moveToNext()) {
        _id = cursor.getLong(cursor.getColumnIndex(ContactsContract.Data._ID));
        displayName =
cursor.getString(cursor.getColumnIndex(ContactsContract.Data.DISPLAY_NAME));
        String mimeType =
cursor.getString(cursor.getColumnIndex(ContactsContract.Data.MIMETYPE));
        if (displayName.equals(name)) {
            if (mimeType.equals(type)) {
                String data = "content:/com.android.contacts/data/" + _id;
                Intent sendIntent = new Intent();
                sendIntent.setAction(Intent.ACTION_VIEW);
                sendIntent.setDataAndType(Uri.parse(data), mimeType);
                sendIntent.setPackage("com.whatsapp");
                startActivity(sendIntent);
            }
        }
    }
}
```

answered Sep 5 at 7:14



Zezariya Nileshe

```
wtsapp_call.setOnClickListener(new View.OnClickListener())
{
    @Override
    public void onClick(View v)
    {
        String mimeType = "vnd.android.cursor.item/vnd.com.whatsapp.voip.call";

        Intent intent = new Intent();
        intent.setAction(Intent.ACTION_VIEW);
        String name= getContactName( number, MainActivity.this);

        intent.setDataAndType(Uri.parse(
            "content://com.android.contacts/data/" +
            getContactIdForWhatsAppCall(name,MainActivity.this)),
            "vnd.android.cursor.item/vnd.com.whatsapp.voip.call"
        ));

        intent.setPackage("com.whatsapp");
        startActivityForResult(intent,WHATSAPP_NUMBER);
    }
});

wtsapp_video.setOnClickListener(new View.OnClickListener())
{
    @Override
    public void onClick(View v)
    {
        Intent intent = new Intent();
        intent.setAction(Intent.ACTION_VIEW);
        Toast.makeText(
            MainActivity.this, "99999999999999999999          video.....", Toast.LENGTH_SHORT
        ).show();

        String name= getContactName( number, MainActivity.this);
        intent.setDataAndType(Uri.parse(
```

◀ [REDACTED] ▶

edited Oct 27 at 12:33



Noel Widmer

1,975 ● 3 ● 24 ● 39

answered Oct 27 at 10:56



dileep krishnan

51 ● 3

Please check your formatting next time. Your post had very low quality and suffered from indentation issues.  
– Noel Widmer Oct 27 at 11:26

If we pass rawContactId, then we can use that to directly fetch the ID associated with the whatsapp call URI.

```
private void whatsappCall(Context context, String rawContactId) {
    try {

        int id = whatsappCallId(context, rawContactId);

        Intent intent = new Intent();
        intent.setAction(Intent.ACTION_VIEW);
        String uriString = "content://com.android.contacts/data/" + id;
        intent.setDataAndType(Uri.parse(uriString),
            "vnd.android.cursor.item/vnd.com.whatsapp.voip.call");
        intent.setPackage("com.whatsapp");
        startActivity(intent);
    } catch (Exception e) {
        Log.e(TAG, "whatsappCall Exception: " + e);
    }
}

private long whatsappCallId(Context context, String rawContactId){
    ContentResolver resolver = context.getContentResolver();

    String selection = ContactsContract.Data.MIMETYPE + " = ? AND " +
        ContactsContract.Data.RAW_CONTACT_ID + " = ? ";
    String[] selectionArgs = new String[] {
        "vnd.android.cursor.item/vnd.com.whatsapp.voip.call", rawContactId };

    Cursor cursor = resolver.query(
        ContactsContract.Data.CONTENT_URI,
        null, selection, selectionArgs,
        ContactsContract.Contacts.DISPLAY_NAME);
    long _id=0;

    while (cursor.moveToNext()) {
        _id = cursor.getLong(cursor.getColumnIndex(ContactsContract.Data._ID));
        String displayName =
            cursor.getString(cursor.getColumnIndex(ContactsContract.Data.DISPLAY_NAME));
        String mimeType =
            cursor.getString(cursor.getColumnIndex(ContactsContract.Data.MIMETYPE));
        Log.d(TAG, "Data: " + _id+ " "+ displayName + " " + mimeType );
    }
    return _id;
}
```

answered Sep 13 at 7:01



Vikas

2,652 ● 20 ● 24

```
// first check wether number have whatsapp or not ...if you dont know

//if rowContactId (return type of hasWhatsapp) is not equal to '0' then this number
has whatsapp..

public String hasWhatsapp( getContactIDFromNumber(795486179).toString(),MainActivity.this
)
{
    String rowContactId = null;
    boolean hasWhatsApp;

    String[] projection = new String[]{ContactsContract.RawContacts._ID};
    String selection = ContactsContract.Data.CONTACT_ID + " = ? AND account_type IN
(?)";
    String[] selectionArgs = new String[]{contactID, "com.whatsapp"};
    Cursor cursor =
getContentResolver().query(ContactsContract.RawContacts.CONTENT_URI, projection,
selection, selectionArgs, null);
    if (cursor != null) {
        hasWhatsApp = cursor.moveToNext();
        if (hasWhatsApp) {
            rowContactId = cursor.getString(0);
        }
        cursor.close();
    }
    return rowContactId;
}

public static int getContactIDFromNumber( contactNumber,Context context)
{
    contactNumber = Uri.encode(contactNumber);
    int phoneContactID = new Random().nextInt();
    Cursor contactLookupCursor =
```

```

context.getResolver().query(Uri.withAppendedPath(ContactsContract.PhoneLookup.CONTENT
String[] {ContactsContract.PhoneLookup.DISPLAY_NAME, ContactsContract.PhoneLookup._ID},
null, null, null);
while(contactLookupCursor.moveToNext())
{
    phoneContactID =
contactLookupCursor.getInt(contactLookupCursor.getColumnIndexOrThrow(ContactsContract.PhoneL
})
contactLookupCursor.close();

return phoneContactID;
}

//your number is support for whatsapp then come to here to make whatsapp call
// this is for whatsapp call
wtsapp_call.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v)
    {
        String mimeType = "vnd.android.cursor.item/vnd.com.whatsapp.voip.call";

        Intent intent = new Intent();
        intent.setAction(Intent.ACTION_VIEW);

        //here you have to pass whatsapp contact number as contact_number ..

        String name= getContactName( contact_number, MainActivity.this);
        int whatsappcall=getContactIdForWhatsAppCall(name,MainActivity.this);
        if (whatsappcall!=0) {
            intent.setDataAndType(Uri.parse("content://com.android.contacts/data/"
+whatsappcall),
                "vnd.android.cursor.item/vnd.com.whatsapp.voip.call");
            intent.setPackage("com.whatsapp");

            startActivityForResult(intent, WHATSAPP_NUMMBER);
        }
    }
});

//for whatsapp video call
wtsapp_video.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v)
    {
        Intent intent = new Intent();
        intent.setAction(Intent.ACTION_VIEW);

        //here you have to pass whatsapp contact number as number..

        String name= getContactName( number, MainActivity.this);
        int videocall=getContactIdForWhatsAppVideoCall(name,MainActivity.this);
        if (videocall!=0)
        {
            intent.setDataAndType(Uri.parse("content://com.android.contacts/data/"
+videocall),
                "vnd.android.cursor.item/vnd.com.whatsapp.video.call");
            intent.setPackage("com.whatsapp");
            startActivity(intent);
        }
    }
});

public String getContactName(final String phoneNumber, Context context)
{
    Uri
uri=Uri.withAppendedPath(ContactsContract.PhoneLookup.CONTENT_FILTER_URI,Uri.encode(phoneNum

    String[] projection = new String[]{ContactsContract.PhoneLookup.DISPLAY_NAME};
    String contactName="";
    Cursor cursor=context.getResolver().query(uri,projection,null,null,null);

    if (cursor != null) {
        if(cursor.moveToFirst()) {
            contactName=cursor.getString(0);
        }
        cursor.close();
    }

    return contactName;
}

public int getContactIdForWhatsAppCall(String name,Context context)
{
    cursor = getResolver().query(
        ContactsContract.Data.CONTENT_URI,
        new String[]{ContactsContract.Data._ID,
        ContactsContract.Data.DISPLAY_NAME + "=? and
"+ContactsContract.Data.MIMETYPE+ "=?"},
        new String[] {name, "vnd.android.cursor.item/vnd.com.whatsapp.voip.call"},
        ContactsContract.Contacts.DISPLAY_NAME);

    if (cursor.getCount()>0)
    {
        cursor.moveToNext();

```

answered Oct 27 at 11:20



51 • 3

for whtsApp audio and video call follow the code – [dileep krishnan](#) Oct 27 at 11:25