

Accessory File Transfer

Programming Guide

Version 1.0

Table of Contents

1. OVERVIEW	3
1.1. BASIC KNOWLEDGE.....	3
1.2. ARCHITECTURE.....	3
1.3. CLASS DIAGRAM	4
1.4. SUPPORTED PLATFORMS.....	5
1.5. SUPPORTED FEATURES	5
1.6. COMPONENTS	5
1.7. INSTALLING THE PACKAGE FOR ECLIPSE	6
2. HELLO ACCESSORYFILETRANSFER	7
3. USING THE SAFT CLASS	14
3.1. USING THE INITIALIZE() METHOD.....	14
3.2. HANDLING SSDKUNSUPPORTEDEXCEPTION	14
3.3. CHECKING THE AVAILABILITY OF ACCESSORY FILE TRANSFER PACKAGE FEATURES.....	15
4. USING THE ACCESSORY FILE TRANSFER PACKAGE.....	16
4.1. CREATING A SENDING APPLICATION	16
4.2. CREATING A RECEIVING APPLICATION	17
4.3. FILE TRANSFER TIPS	19
COPYRIGHT	20

1. Overview

Accessory File Transfer allows you to transfer files between devices using the Samsung Accessory Protocol (SAP) framework. Applications can use the File Transfer Service, if they are developed using the Accessory SDK specification and send and receive files between smart devices through the SAP framework. Accessory File Transfer can send files of any size using all connectivity types supported by the SAP framework. You can develop applications, such as the VoiceMemoApplication on the Galaxy Gear, which records a voice memo and sends it to the Galaxy Note 3.

1.1. Basic Knowledge

Accessory File Transfer uses the File Transfer Service utility to transfer files between devices. The file is transferred on a separate service connection and the user's application does not need an existing service connection to use Accessory File Transfer. Both the sending and receiving application needs an SAAgent implementation, and an EventListener interface implemented to receive file transfer event updates (progress and completion). The sending application must know the peer (SAPeerAgent) to which it wants to send the file, and the receiving application must create a SAFileTransfer object in order to receive incoming file transfer request notifications. The sending application is usually considered a 'file provider' and the receiving application is considered the 'file consumer'.

1.2. Architecture

The following figure shows the Accessory File Transfer architecture.

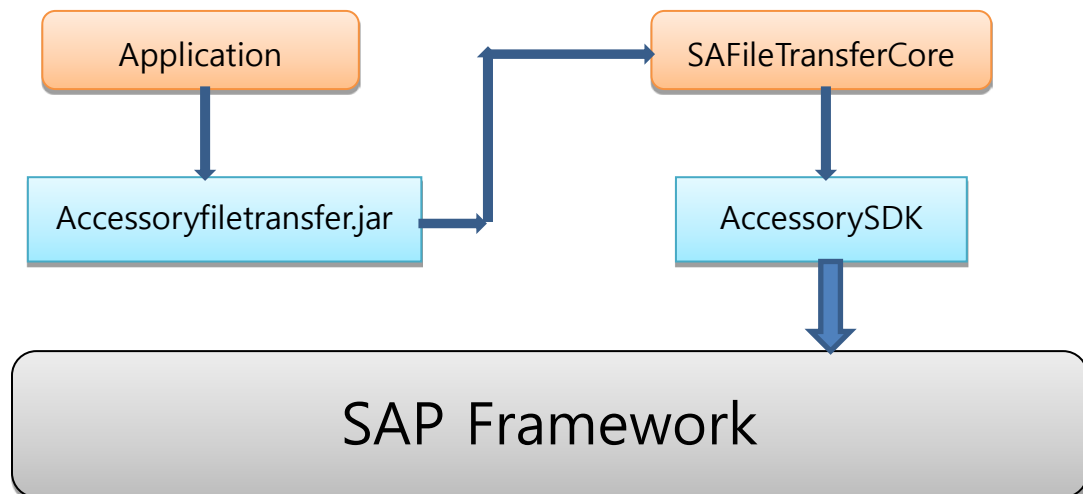


Figure 1: Accessory File Transfer architecture

1.3. Class Diagram

The following figure shows the Accessory File Transfer classes and interfaces that you can use in your application.

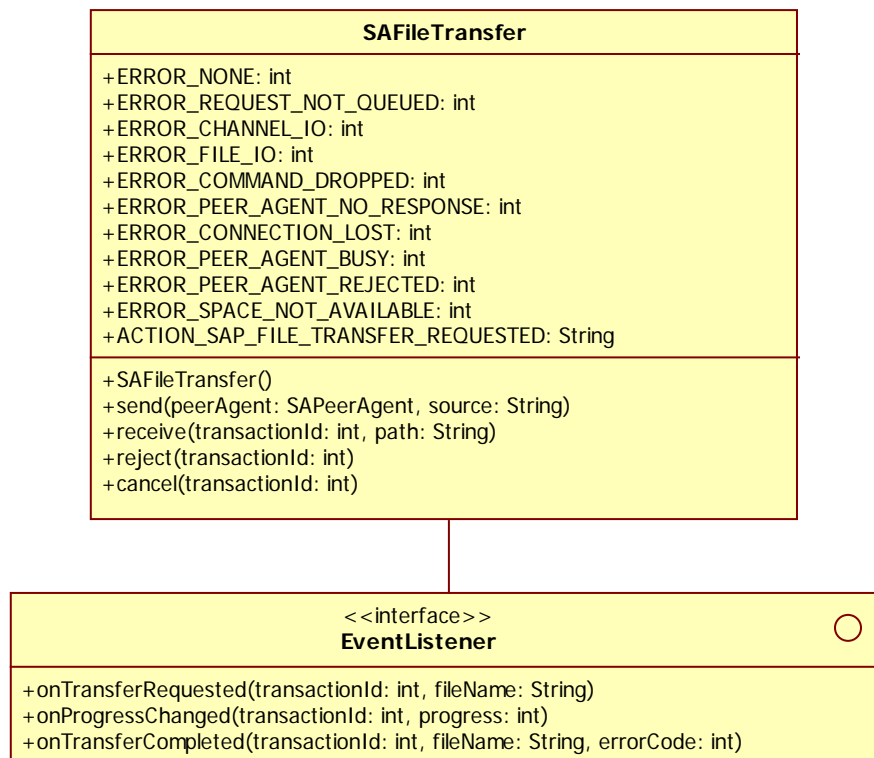


Figure 2: Accessory File Transfer classes and interfaces

The File Transfer classes and interfaces include:

- **SAFileTransfer:** Provides the methods the sending and receiving applications need to use Accessory File Transfer. Each SAAgent implementation can make their own SAFileTransfer object and call `send()`, `receive()`, `reject()`, `cancel()` on it. This class also registers the SAAgent implementation using Accessory File Transfer and the SAFileTransfer.EventListener implementation where file transfer updates are notified. The provided methods are:
 - `send(peerAgent, filename):` Called by the sending application to send the file to the given peerAgent. Returns the transaction ID for the file transfer.
 - `receive(id, storagepath):` Called by the receiving application to accept an incoming file transfer request with the given ID. The file is stored at the storage path provided by the receiver.
 - `reject(id):` Called by the receiving application to reject an incoming file transfer request with the given ID.
 - `cancel(id):` Called by the sending application to cancel an ongoing or queued file transfer request, or by the receiving application to cancel an ongoing transfer.
- **SAFileTransfer.EventListener:** Listens for file transfer update notifications. This interface includes:

- `onTransferRequested(transactionId, filename)`: The receiving application is notified of the incoming file transfer request with the given ID and file name.
- `onProgressChanged(transactionId, progress)`: Both applications are notified of the progress changes in percentage of the file transfer with the given ID.
- `onTransferCompleted(id, filename, errorCode)`: Both applications are notified of the file transfer completion, both is success and failure cases. In case of success, the error code is given as 0, otherwise one of the error codes defined in `SAFileTransfer.java` is used.

1.4. Supported Platforms

- Devices supporting the latest SAP framework, and Galaxy Note 3 or later and Galaxy Gear devices support Accessory File Transfer.
- `SAFileTransfer` works only in the SAP environment.

1.5. Supported Features

Accessory File Transfer supports the following features:

- Send files to a known peer device.
- Queue file transfer requests from multiple applications.
- Receive incoming file transfer request notifications.
- Receive file transfer progress and completion updates.
- Receive proper error codes in case of a file transfer failure.
- Cancel an ongoing or scheduled file transfer.

1.6. Components

- Components
 - `accessory-v1.0.0.jar`
 - `accessroyfiletransfer-v1.0.0.jar`
 - `android-support-v4.jar`
- Imported packages:
 - `com.samsung.android.sdk.accessoryfiletransfer`

1.7. Installing the Package for Eclipse

To install Accessory File Transfer for Eclipse:

1. Add the following files to the libs folder in Eclipse:
 - accessory-v1.0.0.jar
 - accessoryfiletransfer-v1.0.0.jar
 - sdk-v1.0.0.jar
 - android-support-v4.jar
2. Click **Add External JARs** in the **Java Build Path** of your Android project and add the path of the Accessory package JAR file.

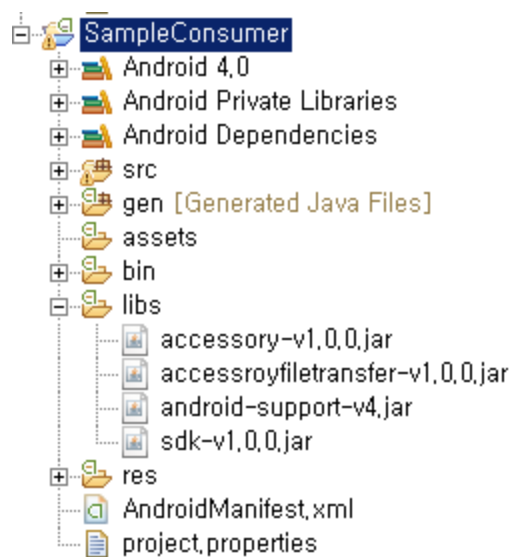


Figure 3: libs folder in Eclipse

2. Hello AccessoryFileTransfer

Hello AccessoryFileTransfer is a simple program that:

1. Initializes Accessory File Transfer.
2. Creates SAFileTransfer.
3. Sends a file from HelloFileSenderService to HelloFileReceiverService.

HelloFileSenderService.java:

```
package com.example.filesender;

import android.content.Intent;
import android.os.Binder;
import android.os.Handler;
import android.os.IBinder;
import android.os.Message;
import android.util.Log;
import android.widget.Toast;

import com.example.filesender.EasyServiceConnectionHandler.DataReader;
import com.samsung.android.sdk.accessory.SAAgent;
import com.samsung.android.sdk.accessory.SAPeerAgent;
import com.samsung.android.sdk.accessory.SASocket;
import com.samsung.android.sdk.accessoryfiletransfer.SAFileTransfer;
import com.samsung.android.sdk.accessoryfiletransfer.SAFileTransfer.EventListener;

public class HelloFileSenderService extends SAAgent implements DataReader {
    private final String TAG = "SampleProviderServiceImpl1";

    private SAPeerAgent mPeerAgent;
    private Handler mHandler;
    private SASocket mConnectionSocket;

    SAFileTransfer mFileTransfer;
    EventListener mCallback;
    private int tx;

    private final IBinder mBinder = new LocalBinder();

    public class LocalBinder extends Binder {
        HelloFileSenderService getService() {
            return HelloFileSenderService.this;
        }
    }

    /*
     * Returning binder object to activity on which it can call methods of this
     * class
     */
    @Override
    public IBinder onBind(Intent arg0) {
        Log.d(TAG, "Bound");
        return mBinder;
    }

    public HelloFileSenderService() {
        super("---FileSenderService---", EasyServiceConnectionHandler.class);
    }
}
```

```

@Override
public void onDataAvailableonChannel(String data, long channelId) {
    /* Send msg to UI */
    if (mHandler != null) {
        Message msg = mHandler.obtainMessage(2, data);
        mHandler.sendMessage(msg);
    }
}

/* Called from activity to set a UI handler to post messages to */
public void setHandler(Handler handler) {
    mHandler = handler;
}

/*
 * Called by user to find available peers to send files to if not using a
 * service connection
 */
public void findPeers() {
    Log.i(TAG, "findPeers");
    mPeerAgent = null;
    findPeerAgents();
}

public SAPeerAgent getPeerAgent() {
    return mPeerAgent;
}

@Override
protected void onServiceConnectionResponse(SASocket socket, int result) {
    Log.i(TAG, "onServiceConnectionResponse : " + result);
    if (result == CONNECTION_SUCCESS) {
        mConnectionSocket = socket;
        mPeerAgent = socket.getConnectedPeerAgent();
        ((EasyServiceConnectionHandler) mConnectionSocket).setDataReader(
            this, mHandler);

        /* Send message to UI */
        if (mHandler != null) {
            Message msg = mHandler.obtainMessage(2,
                "Connection Established");
            mHandler.sendMessage(msg);
        }
    } else {
        Log.e(TAG, "Service connection establishment failed result : "
            + result);
        Toast.makeText(getApplicationContext(), "Connection failed",
            Toast.LENGTH_SHORT).show();
    }
}

@Override
protected void onServiceConnectionRequested(SAPeerAgent peerAgent) {
    acceptServiceConnectionRequest(peerAgent);
}

@Override
protected void onFindPeerAgentResponse(SAPeerAgent peerAgent, int result) {
    Log.i(TAG, "onFindPeerAgentResponse result : " + result);

    if (result == PEER_AGENT_FOUND) {
        mPeerAgent = peerAgent;
    }
}

```



```

}

@Override
protected void onError(final String errorMessage, final int errorCode) {
    new Handler(getMainLooper()).post(new Runnable() {

        @Override
        public void run() {

            Toast.makeText(getBaseContext(),
                           errorMessage + " " + errorCode, Toast.LENGTH_LONG)
                .show();

        }

    });
}

/* Called for registering to File Transfer Service on demand */
private void registerForFileTransfer() {
    SAft accessoryfiletransfer transfer = new SAft()
    // Initialize the SAft package
    try {
        accessoryfiletransfer.initialize(this);
    } catch (SdkUnsupportedException e) {
        // Error handling
    }

    mCallback = new EventListener() {

        @Override
        public void onProgressChanged(int transId, int progress) {
            Log.d(TAG, "progress received : " + progress
                    + " for transaction : " + transId);
            Message msg = mHandler.obtainMessage(2, "progress" + progress);
            mHandler.sendMessage(msg);
        }

        @Override
        public void onTransferCompleted(int transId, String fileName,
                                         int errorCode) {
            Log.d(TAG, "transfer completed for transaction id : " + transId);
            Log.d(TAG, "file name : " + fileName);
            Log.d(TAG, "error code : " + errorCode);
            mFileTransfer = null;
        }

        @Override
        public void onTransferRequested(int id, String fileName) {
        }

    };

    mFileTransfer = new SAFileTransfer(HelloFileSenderService.this,
                                       mCallback);
}

/* Called by user to send a file to remote peer */
protected int sendFile(String fileName) {
    if (mFileTransfer == null)
        registerForFileTransfer();
    tx = mFileTransfer.send(mPeerAgent, fileName);
    return tx;
}

/* Called by user to cancel an ongoing or a queued file transfer request */
public void cancelFile() {

```

```

        if (mFileTransfer != null)
            mFileTransfer.cancel(tx);
    }
}

```

HelloFileReceiverService.java:

```

package com.example.filesender;

import java.io.IOException;

import android.content.Context;
import android.content.Intent;
import android.os.Binder;
import android.os.Handler;
import android.os.IBinder;
import android.os.Message;
import android.util.Log;
import android.widget.Toast;

import com.example.filesender.EasyServiceConnectionHandler.DataReader;
import com.samsung.android.sdk.accessory.SAAgent;
import com.samsung.android.sdk.accessory.SAPeerAgent;
import com.samsung.android.sdk.accessory.SASocket;
import com.samsung.android.sdk.accessoryfiletransfer.SAFileTransfer;
import com.samsung.android.sdk.accessoryfiletransfer.SAFileTransfer.EventListener;
import com.samsung.android.sdk.accessoryfiletransfer.SAFileTransferManager;

public class HelloFileReceiverService extends SAAgent implements DataReader {
    private final String TAG = "SampleConsumerServiceImpl2";

    private SAPeerAgent mPeerAgent;
    private Handler mHandler;
    private SASocket mConnectionSocket;
    private Context mContext;
    private final IBinder mBinder = new LocalBinder();

    SAFileTransfer mFileTransfer;
    EventListener mCallback;
    private int mCurrentTransaction;

    public class LocalBinder extends Binder {
        HelloFileReceiverService getService() {
            return HelloFileReceiverService.this;
        }
    }

    /* Returning binder to activity on which it can call methods of this class */
    @Override
    public IBinder onBind(Intent arg0) {
        return mBinder;
    }

    public HelloFileReceiverService() {
        super("---FileReceiverService---", EasyServiceConnectionHandler.class);
    }

    @Override
    public int onStartCommand(Intent intent, int flags, int startId) {
        Log.d(TAG, "FileReceiverService started");
        /*
         * Registering ahead at start of service to receive incoming file
         * transfer request notifications

```

```

        */
        registerForFileTransfer();
        return super.onStartCommand(intent, flags, startId);
    }

    @Override
    public void onDataAvailableonChannel(final String data, long channelId) {

        if (mHandler != null) {
            Message msg = mHandler.obtainMessage(3, data);
            mHandler.sendMessage(msg);
        }

        /* Register handler in activity to post messages to */
        public void setHandler(Handler handler) {
            mHandler = handler;
        }

        /* Called by user to find and connect to remote peer */
        public void findPeers() {
            Log.i(TAG, "findPeers");
            mPeerAgent = null;
            findPeerAgents();
        }

        public void closeConnection() {
            if (mConnectionSocket != null) {
                Log.i(TAG,
                    "Closing connection, cannot write anymore data on the
channel");

                mConnectionSocket.close();
            }
        }

        @Override
        protected void onServiceConnectionResponse(SASocket socket, int result) {
            Log.i(TAG, "onServiceConnectionResponse : " + result);
            if (result == CONNECTION_SUCCESS) {
                mConnectionSocket = socket;
                ((EasyServiceConnectionHandler) mConnectionSocket).setDataReader(
                    this, mHandler);

                /* Send message to UI */
                if (mHandler != null) {
                    Message msg = mHandler.obtainMessage(3,
                        "Connection Established");
                    mHandler.sendMessage(msg);
                }
            } else {
                Log.e(TAG, "Service connection establishment failed result : "
                    + result);
                if (mHandler != null) {
                    Message msg = mHandler.obtainMessage(3, "Connection failed:"
                        + result);
                    mHandler.sendMessage(msg);
                }
            }
        }

        public void registerForFileTransfer() {
            SAft accessoryfiletransfer = new SAft()
            // Initialize the SAft package

```

```

        try {
            accessoryfiletransfer.initialize(this);
        } catch (SsdkUnsupportedException e) {
            // Error handling
        }

        mCallback = new EventListener() {

            @Override
            public void onProgressChanged(int transId, int progress) {
                Log.d(TAG, "progress received : " + progress
                    + " for transaction : " + transId);
                Message msg = mHandler.obtainMessage(3, "progress" + progress);
                mHandler.sendMessage(msg);
            }

            @Override
            public void onTransferCompleted(int transId, String fileName,
                int errorCode) {
                Log.d(TAG, "transfer completed for transaction id : " + transId);
                Log.d(TAG, "file name : " + fileName);
                Log.d(TAG, "error code : " + errorCode);
            }

            @Override
            public void onTransferRequested(int id, String fileName) {
                Message msg = mHandler.obtainMessage(3,
                    "File transfer request for service 2");
                mHandler.sendMessage(msg);
                Message msg1 = mHandler.obtainMessage(101, "2:" + id + ":"
                    + fileName);
                mHandler.sendMessage(msg1);
            }

        };

        mFileTransfer = new SAFileTransfer(HelloFileReceiverService.this,
            mCallback);
    }

    @Override
    protected void onServiceConnectionRequested(SAPeerAgent peerAgent) {
        Log.i(TAG, "onServiceConnectionRequested - accept");
    }

    @Override
    protected void onFindPeerAgentResponse(SAPeerAgent peerAgent, int result) {
        Log.i(TAG, "onFindPeerAgentResponse result : " + result);

        if (result == PEER_AGENT_FOUND) {
            mPeerAgent = peerAgent;
            requestServiceConnection(peerAgent);
        }
    }

    @Override
    protected void onError(final String errorMessage, final int errorCode) {

        if (errorCode == SAAgent.ERROR_FATAL) {
            findPeerAgents();
        }

        new Handler(getMainLooper()).post(new Runnable() {

            @Override

```

```

        public void run() {
            Toast.makeText(getBaseContext(),
                           errorMessage + " " + errorCode, Toast.LENGTH_LONG)
                .show();
        }
    });
}

/* Called from activity by user to cancel ongoing file transfer */
protected void cancelFile() {
    if (mFileTransfer != null)
        mFileTransfer.cancel(mCurrentTransaction);
}

/* Called from activity after user accepts/rejects file transfer request */
public void receiveFile(int transId, String destPath, boolean accepted) {
    if (mFileTransfer != null) {
        Log.d(TAG, "receiving file : transId: " + transId + "accepted = "
              + accepted);
        if (accepted) {
            /* If user accepted */
            mFileTransfer.receive(transId, "");
        } else {
            /* If user rejected */
            mFileTransfer.reject(transId);
        }
    }
    mCurrentTransaction = transId;
}
}

```

3. Using the SAft Class

The SAft class provides the following methods:

- `initialize()` initializes Accessory File Transfer. You need to initialize the Accessory File Transfer package before you can use it. If the device does not support Accessory File Transfer, `SsdkUnsupportedException` is thrown.
- `getVersionCode()` gets the Accessory File Transfer version number as an integer.
- `getVersionName()` gets the Accessory File Transfer version name as a string.
- `isFeatureEnabled(int type)` checks if the Accessory File Transfer feature is available on the device.

```
SAft accessoryfiletransfer = new SAft();
try {
    accessoryfiletransfer.initialize(this);
} catch (SsdkUnsupportedException e) {
    // Error handling
    e.printStackTrace();
}
```

3.1. Using the initialize() Method

The `SAft.initialize()` method:

- Initializes the Accessory File Transfer package
- Checks if the device is a Samsung device
- Checks if the device supports the Accessory File Transfer package
- Checks if the Accessory File Transfer package libraries are installed on the device.

```
void initialize(Context context) throws SsdkUnsupportedException
```

If the Accessory File Transfer package fails to initialize, the `initialize()` method throws an `SsdkUnsupportedException` exception. To find out the reason for the exception, check the exception message.

3.2. Handling SsdkUnsupportedException

If an `SsdkUnsupportedException` exception is thrown, check the exception message type using `SsdkUnsupportedException.getType()`.

The following types of exception messages are defined in the SAft class:

- **LIBRARY_NOT_INSTALLED:** The library is not installed on the device.

3.3. Checking the Availability of Accessory File Transfer Package Features

No values for the input parameter of this method are currently supported in the Accessory File Transfer package.

4. Using the Accessory File Transfer Package

The following sections describe how to implement a sending or receiving application for File Transfer.

4.1. Creating a Sending Application

To send files:

1. Create an SAFileTransfer(SAAgent, EventListener) object.
The application must have an SAAgent subclass and an implementation of the EventListener interface. The following example shows this implementation.

```
mCallback = new EventListener() {  
  
    @Override  
    public void onProgressChanged(int transId, int progress) {  
        Log.d(TAG, "progress received : " + progress  
            + " for transaction : " + transId);  
    }  
  
    @Override  
    public void onTransferCompleted(int transId, String fileName,  
        int errorCode) {  
        Log.d(TAG, "transfer completed for transaction id : " + transId);  
        Log.d(TAG, "file name : " + fileName);  
        Log.d(TAG, "error code : " + errorCode);  
    }  
  
    @Override  
    public void onTransferRequested(int id, String fileName) {  
        /*No use in case of a file sender*/  
    }  
  
};
```

2. The application must create an SAFileTransfer object to bind the application to Accessory File Transfer.

```
SAFileTransfer mFileTransfer = new SAFileTransfer(  
    HelloFileSenderService.this, mCallback);
```

3. To send a file, the application must know the SAPeerAgent to which it wants to send the file. The SAPeerAgent can be obtained either by calling findPeerAgents() or by using the connected peer. The application must then call send(SAPeerAgent , String) on the SAFileTransfer object.

```
int tx = mFileTransfer.send(mPeerAgent, fileName);
```

The file name provided must be a fully qualified path for the file. You can also supply a content or data URI. The data must be stored in a publicly-visible location, for example, on /mnt/sdcard. Accessory File Transfer cannot access files residing in the application internal storage, for example,

/data/data/<packageName>. A unique transaction ID is returned to the application, which the application can retain for future reference.

4. During the file transfer, progress updates are notified with the `onProgressChanged()` callback. Applications can update a progress bar based on the progress value received in the callback. When the file transfer is completed (successfully or not), the `onTransferCompleted()` callback is called with the appropriate error values. Applications can match the error codes with the error fields declared in the `SAFileTransfer` class.
5. The sending application can cancel the file transfer at any time by calling `cancel()`.

```
mFileTransfer.cancel(transactionId);
```

If a file transfer is cancelled, the `onTransferCompleted()` is called with a proper error code.

4.2. Creating a Receiving Application

To receive files:

1. Define a broadcast receiver (defined in `SAFileTransfer.java`) in the receiver application.

```
ACTION_INCOMING_FT_REQUEST = "com.samsung.accessory.ftconnection"
```

2. Declare the receiver in the manifest.

```
<receiver
android:name="com.samsung.android.sdk.accessoryfiletransfer.SAFileTransferIncomingRequestReceive
r" >
    <intent-filter>
        <action android:name="com.samsung.accessory.ftconnection" />
    </intent-filter>
</receiver>
```

3. The receiver is triggered when the receiver receives a file transfer request. The application must register with Accessory File Transfer by creating an `EventListener` instance and an `SAFileTransfer` object.

```
mCallback = new EventListener() {

    @Override
    public void onProgressChanged(int transId, int progress) {
        Log.d(TAG, "progress received : " + progress
            + " for transaction : " + transId);
        Message msg = mHandler.obtainMessage(3, "progress" + progress);
        mHandler.sendMessage(msg);
    }

    @Override
    public void onTransferCompleted(int transId, String fileName,
        int errorCode) {
        Log.d(TAG, "transfer completed for transaction id : " + transId);
    }
}
```

```

        Log.d(TAG, "file name : " + fileName);
        Log.d(TAG, "error code : " + errorCode);
    }

    @Override
    public void onTransferRequested(int id, String fileName) {
        /* Notify user of incoming request */
        Message msg = mHandler.obtainMessage(3,
            "File transfer request received");
        mHandler.sendMessage(msg);
        Message msg1 = mHandler.obtainMessage(101, id + ":",
            + fileName);
        mHandler.sendMessage(msg1);
    }
};

mFileTransfer = new SAFileTransfer(HelloFileReceiverService.this,
    mCallback);

```

The `EventListener` instance and the `SAFileTransfer` object are needed to enable the receiving application to receive incoming file transfer requests. The file transfer utility application notifies the receiving application about the incoming request with the `onTransferRequested(int id, String filename)` callback.

The application can inform the user through a notification or pop-up about the incoming file transfer and ask for permission to accept or reject the incoming file transfer request.

4. The application must call `receive(int transactionId, String destinationFilePath)` on the `SAFileTransfer` object to receive the file.

```
mFileTransfer.receive(transId, "/storage/emulated/0/received.ext");
```

The destination file path where the received file is stored must be a publicly available location and also a fully qualified path. You can leave the parameter blank, in which case the file is stored in the external storage directory under a generated file name, for example, `ReceivedFile<timestamp>.ext`. An `IllegalArgumentException` occurs if an invalid file path or an invalid transaction ID is used.

The application must call `reject(int transactionId)` on the `SAFileTransfer` object to reject the file transfer request.

```
mFileTransfer.reject(transId);
```

5. The sending application starts sending data only after `receive()` is called. During the file transfer, progress updates are notified with the `onProgressChanged(int, int)` callback. The application can update a progress bar based on the progress value received. When the file transfer is completed (successfully or not), the `onTransferCompleted(int, String, int)` callback is called with the requisite error code. The application can match the error code received with those defined in `SAFileTransfer` to find the exact reason for error. Error code 0 refers to a successful file transfer.

The application can cancel the file transfer at any time by calling `cancel(int)` with the correct transaction ID.

```
mFileTransfer.cancel(mCurrentTransaction);
```

If the file transfer is cancelled, `onTransferCompleted()` is called with a requisite error code.

4.3. File Transfer Tips

Remember the following tips when implementing file transfers:

- The File Transfer Service utility maintains its own queue for all file sending operations. Individual applications need not and must not maintain their own queues to control file transfer. All `send()` calls are queued and serviced sequentially, even when they come from multiple user applications.
- There is a timeout of 10 seconds when the sending application sends the file transfer request to the receiving application. If the receiver does not accept or reject the file transfer within that time, it is cancelled and an error code is thrown on the sender side with the `onTransferCompleted()` callback. This is also the case when the application forgets to register the incoming file transfer request broadcast receiver or to call `receive()`.
- The File Transfer Service utility checks whether there is enough space on the receiving device to receive the incoming file. If not, it rejects the file transfer automatically without informing the receiving application.
- The File Transfer Service utility checks whether there is already a file with the same name present in the location provided. If there is, it appends a timestamp to the given file name. If no file path is provided, the file is stored in the external storage directory under a generated file name.
- In the current `accessoryfiletransfer.jar` implementation, files can be transferred with or without a service connection between user applications. This is different from the previous implementation, where a service connection was necessary.
- It is mandatory to implement the `EventListener` interface for file transfer updates.
- If you have multiple `SAAgent` implementations in your application, all using Accessory File Transfer, each one must create its own `SAFileTransfer` object. On the receiver side, all the agents must be registered. Accessory File Transfer SDK resolves the intended `SAAgent` implementation for every incoming file transfer request and notifies it with its specific `onTransferRequested()` callback.
- There is one binding to Accessory File Transfer per application, irrespective of the number of `SAAgent` implementations in the application.
- `SAFileTransferIncomingRequestReceiver` must be declared in the receiving application's manifest.

Copyright

Copyright © 2014 Samsung Electronics Co. Ltd. All Rights Reserved.

Though every care has been taken to ensure the accuracy of this document, Samsung Electronics Co., Ltd. cannot accept responsibility for any errors or omissions or for any loss occurred to any person, whether legal or natural, from acting, or refraining from action, as a result of the information contained herein. Information in this document is subject to change at any time without obligation to notify any person of such changes.

Samsung Electronics Co. Ltd. may have patents or patent pending applications, trademarks copyrights or other intellectual property rights covering subject matter in this document. The furnishing of this document does not give the recipient or reader any license to these patents, trademarks copyrights or other intellectual property rights.

No part of this document may be communicated, distributed, reproduced or transmitted in any form or by any means, electronic or mechanical or otherwise, for any purpose, without the prior written permission of Samsung Electronics Co. Ltd.

The document is subject to revision without further notice.

All brand names and product names mentioned in this document are trademarks or registered trademarks of their respective owners.

For more information, please visit <http://developer.samsung.com/>