Android BroadastReceivers

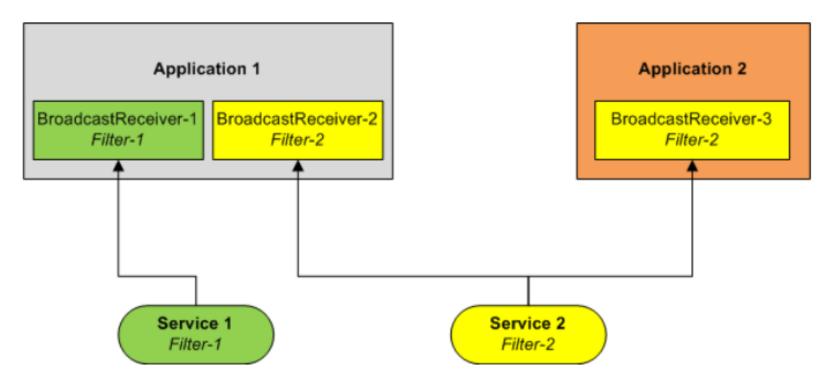
Android - BroadastReceivers

- Component that responds to system-wide broadcast announcements.
- Example system broadcasts: screen has turned off, the battery is low, user is present using phone, or a picture was captured.
- Applications can initiate broadcasts—e.g., to let oth er applications know that some data has been downlo aded to the device and is available for them to use.
- Don't display a UI, but can create a status bar notification to alert the user when a broadcast event occurs..

- Usually, a broadcast receiver is just a "gate way" to other components and is intended to do a very minimal amount of work. For in stance, it might initiate a service to perfor m some work based on the event. —
 - —Important: you must complete tasks in a Broadcast Receiver in<10s. If you have a task that will take longer, you must start a new thread to avoid app as sassin OS.

BroadastReceivers Life Cycle

The system delivers a broadcast Intent to all interested broadcast receivers, which handle the Intent sequentially.



BroadastReceivers Life Cycle

A broadcast receiver has a single callback method:

void onReceive(ContextcurContext, IntentbroadcastMsg)

- When a broadcast message arrives for the receiver, Android calls its onReceive() method and passes it the Intent object containing the message.
- The broadcast receiver is considered to be active only while it is executing this method.
- When onReceive() returns, it is inactive.

BroadastReceivers Via xml

The manifest of applications using Android Services must include:

- A <service> entry for each service used in the application.
- If the application defines a BroadcastReceiver as an independent class, it must include a <receiver> clause identifying the component. In addition an <intent-filter> entry is needed to declare the actual filter the service and the receiver use.