Android location providers_changed

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you did not Initialize the BCR! Put a Brostcast.initilize("BroadcastReceiver") as 1st line... Check the description in the BCR Library thread.... Sorry.. I had missed out on pasting that part of the code when posting this thread. I have already set the "initialize" in the Service create Sub like below Sub Service_Create If Notification.IsInitialized = False Then Notification.Initialize Notification.Icon = "icon" Notification.SetInfo("test", "test", Main) Notification.Sound = False Notification.Vibrate = True End If Broadcast.Initialize("BroadcastReceiver") End Sub The error is there even with this already. Not able to understand why trapping this intent is throwing error and causing the application to crash.. Deepak Gupta answer at 2013-12-19 75 This is useful when user want to trigger any action on turn On/Off location provides You should add this action in manifest and after add this action you can trigger your broadcast receiver And in your BroadcastReceiver class you have to implement LocationListener in that class which is given following below.. public class GpsLocationReceiver extends BroadcastReceiver { @Override public void onReceive(Context context, Intent intent) { if (intent.getAction().matches("android.location.PROVIDERS_CHANGED")) { Toast.makeText(context, "in android.location.PROVIDERS_CHANGED", Toast.LENGTH_SHORT).show(); Intent pushIntent = new Intent(context, LocalService.class); context.startService(pushIntent); } } } public class LocationManager extends Object java.lang.Object ↳ android.location.LocationManager This class provides access to the system location services. These services allow applications to obtain periodic updates of the device's geographical location, or to be notified when the device enters the proximity of a given geographical location. Unless otherwise noted, all Location API methods require the Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION permissions. If your application only has the coarse permission then providers will still return location results, but the exact location will be obfuscated to a coarse level of accuracy. Requires the PackageManager#FEATURE_LOCATION feature which can be detected using PackageManager.hasSystemFeature(String). boolean addGpsStatusListener(GpsStatus.Listener listener) This method was deprecated in API level 24. use registerGnssStatusCallback(android.location.GnssStatus.Callback) instead. No longer supported in apps targeting S and above. boolean addNmeaListener(OnNmeaMessageListener listener, Handler handler) Adds an NMEA listener. boolean addNmeaListener(OnNmeaMessageListener listener) This method was deprecated in API level 30. Use addNmeaListener(android.location.OnNmeaMessageListener, android.os.Handler) or addNmeaListener(java.util.concurrent.Executor, android.location.OnNmeaMessageListener) instead. boolean addNmeaListener(GpsStatus.NmeaListener listener) This method was deprecated in API level 24. Use addNmeaListener(GpsStatus.NmeaListener) instead. boolean addNmeaListener(Executor executor, OnNmeaMessageListener listener) Adds an NMEA listener. void addProximityAlert(double latitude, double longitude, float radius, long expiration, PendingIntent pendingIntent) Sets a proximity alert for the location given by the position (latitude, longitude) and the given radius. void addTestProvider(String provider, ProviderProperties properties) Creates a test location provider and adds it to the set of active providers. void addTestProvider(String provider, ProviderProperties properties, Set extraAttributionTags) Creates a test location provider and adds it to the set of active providers. void addTestProvider(String provider, boolean requiresNetwork, boolean requiresSatellite, boolean requiresCell, boolean hasMonetaryCost, boolean supportsAltitude, boolean supportsSpeed, boolean supportsBearing, int powerUsage, int accuracy) Creates a test location provider and adds it to the set of active providers. void clearTestProviderEnabled(String provider) This method was deprecated in API level 29. Use setTestProviderEnabled(java.lang.String, boolean) instead. void clearTestProviderLocation(String provider) This method was deprecated in API level 29. This method has always been a no-op, and may be removed in the future. void clearTestProviderStatus(String provider) This method was deprecated in API level 29. This method has no effect. List getAllProviders() Returns a list of the names of all available location providers. String getBestProvider(Criteria criteria, boolean enabledOnly) Returns the name of the provider that best meets the given criteria. void getCurrentLocation(String provider, LocationRequest locationRequest, CancellationSignal cancellationSignal, Executor executor, Consumer consumer) Asynchronously returns a single current location fix from the given provider based on the given LocationRequest. void getCurrentLocation(String provider, CancellationSignal cancellationSignal, Executor executor, Consumer consumer) Asynchronously returns a single current location fix from the given provider. List getGnssAntennaInfos() Returns the current list of GNSS antenna infos, or null if unknown or unsupported. GnssCapabilities getGnssCapabilities() Returns the supported capabilities of the GNSS chipset. String getGnssHardwareModelName() Returns the model name (including vendor and hardware/software version) of the GNSS hardware driver, or null if this information is not available. int getGnssYearOfHardware() Returns the model year of the GNSS hardware and software build, or 0 if the model year is before 2016. GpsStatus getGpsStatus(GpsStatus status) This method was deprecated in API level 24. GpsStatus APIs are deprecated, use GnssStatus APIs instead. No longer supported in apps targeting S and above. Location getLastKnownLocation(String provider) Gets the last known location from the given provider, or null if there is no last known location. LocationProvider getProvider(String provider) This method was deprecated in API level 31. This method has no way to indicate that a provider's properties are unknown, and so may return incorrect results on rare occasions. Use getProviderProperties(java.lang.String) instead. ProviderProperties getProviderProperties(String provider) Returns the properties of the given provider, or null if the properties are currently unknown. List getProviders(boolean enabledOnly) Returns a list of the names of available location providers. List getProviders(Criteria criteria, boolean enabledOnly) Returns a list of the names of available location providers that satisfy the given criteria. boolean hasProvider(String provider) Returns true if the given location provider exists on this device, irrespective of whether it is currently enabled or not. boolean isLocationEnabled() Returns the current enabled/disabled state of location. boolean isProviderEnabled(String provider) Returns the current enabled/disabled status of the given provider. boolean registerAntennaInfoListener(Executor executor, GnssAntennaInfo.Listener listener) Registers a GNSS antenna info listener that will receive all changes to antenna info. boolean registerGnssMeasurementsCallback(Executor executor, GnssMeasurementsEvent.Callback callback) Registers a GNSS measurements callback. boolean registerGnssMeasurementsCallback(GnssMeasurementsEvent.Callback callback) This method was deprecated in API level 30. Use registerGnssMeasurementsCallback(GnssMeasurementsEvent.Callback, Handler) or registerGnssMeasurementsCallback(Executor, GnssMeasurementsEvent.Callback) instead. Requires Manifest.permission.ACCESS_FINE_LOCATION boolean registerGnssMeasurementsCallback(GnssMeasurementRequest request, Executor executor, GnssMeasurementsEvent.Callback callback) Registers a GNSS measurement callback. boolean registerGnssMeasurementsCallback(GnssMeasurementsEvent.Callback callback, Handler handler) Registers a GNSS measurements callback. boolean registerGnssNavigationMessageCallback(GnssNavigationMessage.Callback callback, Handler handler) Registers a GNSS navigation message callback. boolean registerGnssNavigationMessageCallback(Executor executor, GnssNavigationMessage.Callback callback) Registers a GNSS navigation message callback. boolean registerGnssNavigationMessageCallback(GnssNavigationMessage.Callback callback) This method was deprecated in API level 30. Use registerGnssNavigationMessageCallback(android.location.GnssNavigationMessage.Callback, android.os.Handler) or registerGnssNavigationMessageCallback(java.util.concurrent.Executor, android.location.GnssNavigationMessage.Callback) instead. boolean registerGnssStatusCallback(GnssStatus.Callback callback) This method was deprecated in API level 30. Use registerGnssStatusCallback(android.location.GnssStatus.Callback, android.os.Handler) or registerGnssStatusCallback(java.util.concurrent.Executor, android.location.GnssStatus.Callback) instead. boolean registerGnssStatusCallback(GnssStatus.Callback callback, Handler handler) Registers a GNSS status callback. boolean registerGnssStatusCallback(Executor executor, GnssStatus.Callback callback) Registers a GNSS status callback. void removeGpsStatusListener(GpsStatus.Listener listener) This method was deprecated in API level 24. use unregisterGnssStatusCallback(android.location.GnssStatus.Callback) instead. No longer supported in apps targeting S and above. void removeNmeaListener(OnNmeaMessageListener listener) Removes an NMEA listener. void removeNmeaListener(GpsStatus.NmeaListener listener) This method was deprecated in API level 24. Use removeNmeaListener(android.location.OnNmeaMessageListener) instead. void removeProximityAlert(PendingIntent intent) Removes the proximity alert with the given PendingIntent. void removeTestProvider(String provider) Removes the test location provider with the given name or does nothing if no such test location provider exists. void removeUpdates(LocationListener listener) Removes all location updates for the specified LocationListener. void removeUpdates(PendingIntent pendingIntent) Removes location updates for the specified PendingIntent. void requestFlush(String provider, LocationListener listener, int requestCode) Requests that the given provider flush any batched locations to listeners. void requestFlush(String provider, PendingIntent pendingIntent, int requestCode) Requests that the given provider flush any batched locations to listeners. void requestLocationUpdates(String provider, long minTimeMs, float minDistanceM, LocationListener listener) Register for location updates from the given provider with the given arguments, and a callback on the Looper of the calling thread. void requestLocationUpdates(long minTimeMs, float minDistanceM, Criteria criteria, LocationListener listener, Looper looper) This method was deprecated in API level 31. Use requestLocationUpdates(java.lang.String, long, float, android.location.LocationListener, android.os.Looper) instead to explicitly select a provider. void requestLocationUpdates(String provider, long minTimeMs, float minDistanceM, LocationListener listener, Looper looper) Register for location updates from the given provider with the given arguments, and a callback on the specified Looper. void requestLocationUpdates(String provider, long minTimeMs, float minDistanceM, Executor executor, LocationListener listener) Register for location updates using the named provider, and a callback on the specified Executor. void requestLocationUpdates(String provider, LocationRequest locationRequest, PendingIntent pendingIntent) Register for location updates from the specified provider, using a LocationRequest, and callbacks delivered via the provided PendingIntent. void requestLocationUpdates(String provider, LocationRequest locationRequest, Executor executor, LocationListener listener) Register for location updates from the specified provider, using a LocationRequest, and a callback on the specified Executor. void requestLocationUpdates(long minTimeMs, float minDistanceM, Criteria criteria, PendingIntent pendingIntent) This method was deprecated in API level 31. Use requestLocationUpdates(java.lang.String, long, float, android.app.PendingIntent) instead to explicitly select a provider. void requestLocationUpdates(long minTimeMs, float minDistanceM, Criteria criteria, Executor executor, LocationListener listener) This method was deprecated in API level 31. Use requestLocationUpdates(java.lang.String, long, float, java.util.concurrent.Executor, android.location.LocationListener) instead to explicitly select a provider. void requestLocationUpdates(String provider, long minTimeMs, float minDistanceM, PendingIntent pendingIntent) Register for location updates using the named provider, and callbacks delivered via the provided PendingIntent. void requestSingleUpdate(String provider, PendingIntent pendingIntent) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. void requestSingleUpdate(Criteria criteria, PendingIntent pendingIntent) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. void requestSingleUpdate(String provider, LocationListener listener, Looper looper) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. void requestSingleUpdate(Criteria criteria, LocationListener listener, Looper looper) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. boolean sendExtraCommand(String provider, String command, Bundle extras) Sends additional commands to a location provider. void setTestProviderEnabled(String provider, boolean enabled) Sets the given test provider to be enabled or disabled. void setTestProviderLocation(String provider, Location location) Sets a new location for the given test provider. void setTestProviderStatus(String provider, int status, Bundle extras, long updateTime) This method was deprecated in API level 29. This method has no effect. void unregisterAntennaInfoListener(GnssAntennaInfo.Listener listener) Unregisters a GNSS antenna info listener. void unregisterGnssMeasurementsCallback(GnssMeasurementsEvent.Callback callback) Unregisters a GPS Measurement callback. void unregisterGnssNavigationMessageCallback(GnssNavigationMessage.Callback callback) Unregisters a GNSS Navigation Message callback. void unregisterGnssStatusCallback(GnssStatus.Callback callback) Removes a GNSS status callback. From class java.lang.Object Object clone() Creates and returns a copy of this object. boolean equals(Object obj) Indicates whether some other object is "equal to" this one. void finalize() Called by the garbage collector on an object when garbage collection determines that there are no more references to the object. final Class getClass() Returns the runtime class of this Object. int hashCode() Returns a hash code value for the object. final void notify() Wakes up a single thread that is waiting on this object's monitor. final void notifyAll() Wakes up all threads that are waiting on this object's monitor. String toString() Returns a string representation of the object. final void wait(long timeout, int nanos) Causes the current thread to wait until another thread invokes the notify() method or the notifyAll() method for this object, or some other thread interrupts the current thread, or a certain amount of real time has elapsed. final void wait(long timeout) Causes the current thread to wait until either another thread invokes the notify() method or the notifyAll() method for this object, or a specified amount of time has elapsed. final void wait() Causes the current thread to wait until another thread invokes the notify() method or the notifyAll() method for this object. Constants public static final String FUSED_PROVIDER Standard name of the fused location provider. If present, this provider may combine inputs from several other location providers to provide the best possible location fix. It is implicitly used for all requestLocationUpdates APIs that involve a Criteria. Constant Value: "fused" public static final String GPS_PROVIDER Standard name of the GNSS location provider. If present, this provider determines location using GNSS satellites. The responsiveness and accuracy of location fixes may depend on GNSS signal conditions. Locations returned from this provider are with respect to the primary GNSS antenna position within the device. getGnssAntennaInfos() may be used to determine the GNSS antenna position with respect to the Android Coordinate System, and convert between them if necessary. This is generally only necessary for high accuracy applications. The extras Bundle for locations derived by this location provider may contain the following key/value pairs: satellites - the number of satellites used to derive the fix Constant Value: "gps" public static final String KEY_PROXIMITY_ENTERING Key used for the Bundle extra holding a boolean indicating whether a proximity alert is entering (true) or exiting (false).. Constant Value: "entering" Added in API level 3 Deprecated in API level 29 public static final String KEY_STATUS_CHANGED This constant was deprecated in API level 29. Status changes are deprecated and no longer broadcast from Android Q onwards. This key is no longer in use. Key used for a Bundle extra holding an Integer status value when a status change is broadcast using a PendingIntent. Constant Value: "status" public static final String NETWORK_PROVIDER Standard name of the network location provider. If present, this provider determines location based on nearby of cell tower and WiFi access points. Operation of this provider may require a data connection. Constant Value: "network" public static final String PASSIVE_PROVIDER A special location provider for receiving locations without actively initiating a location fix. This location provider is always present. This provider can be used to passively receive location updates when other applications or services request them without actually requesting the locations yourself. This provider will only return locations generated by other providers. Constant Value: "passive" Public methods public void addProximityAlert (double latitude, double longitude, float radius, long expiration, PendingIntent pendingIntent) Sets a proximity alert for the location given by the position (latitude, longitude) and the given radius. When the device detects that it has entered or exited the area surrounding the location, the given PendingIntent will be fired. The fired intent will have a boolean extra added with key KEY_PROXIMITY_ENTERING. If the value is true, the device is entering the proximity region; if false, it is exiting. Due to the approximate nature of position estimation, if the device passes through the given area briefly, it is possible that no Intent will be fired. Similarly, an intent could be fired if the device passes very close to the given area but does not actually enter it. Before API version 17, this method could be used with Manifest.permission.ACCESS_FINE_LOCATION or Manifest.permission.ACCESS_COARSE_LOCATION. From API version 17 and onwards, this method requires Manifest.permission.ACCESS_FINE_LOCATION permission. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters latitude double: the latitude of the central point of the alert region longitude double: the longitude of the central point of the alert region radius float: the radius of the central point of the alert region in meters expiration long: expiration realtime for this proximity alert in milliseconds, or -1 to indicate no expiration pendingIntent PendingIntent: a PendingIntent that will sent when entry to or exit from the alert region is detected This value cannot be null. public void addTestProvider (String provider, ProviderProperties properties, Set extraAttributionTags) Creates a test location provider and adds it to the set of active providers. This provider will replace any provider with the same name that exists prior to this call. Parameters provider String: the provider name This value cannot be null. properties ProviderProperties: the provider properties This value cannot be null. extraAttributionTags Set: additional attribution tags associated with this provider This value cannot be null. public void addTestProvider (String provider, boolean requiresNetwork, boolean requiresSatellite, boolean requiresCell, boolean hasMonetaryCost, boolean supportsAltitude, boolean supportsSpeed, boolean supportsBearing, int powerUsage, int accuracy) Creates a test location provider and adds it to the set of active providers. This provider will replace any provider with the same name that exists prior to this call. Added in API level 3 Deprecated in API level 29 public void clearTestProviderLocation (String provider) This method was deprecated in API level 29. This method has always been a no-op, and may be removed in the future. Does nothing. Parameters provider String: This value cannot be null. Added in API level 3 Deprecated in API level 29 public void clearTestProviderStatus (String provider) This method was deprecated in API level 29. This method has no effect. This method has no effect as provider status has been deprecated and is no longer supported. Parameters provider String: This value cannot be null. public List getAllProviders () Returns a list of the names of all available location providers. All providers are returned, including those that are currently disabled. Returns List list of provider names This value cannot be null. public String getBestProvider (Criteria criteria, boolean enabledOnly) Returns the name of the provider that best meets the given criteria. Only providers that are permitted to be accessed by the caller will be returned. If several providers meet the criteria, the one with the best accuracy is returned. If no provider meets the criteria, the criteria are loosened in the following order: power requirement accuracy bearing speed altitude Note that the requirement on monetary cost is not removed in this process. Parameters criteria Criteria: the criteria that need to be matched This value cannot be null. enabledOnly boolean: if true then only enabled providers are included Returns String name of the provider that best matches the criteria, or null if none match Throws IllegalArgumentException if criteria is null public void getCurrentLocation (String provider, LocationRequest locationRequest, CancellationSignal cancellationSignal, Executor executor, Consumer consumer) Asynchronously returns a single current location fix from the given provider based on the given LocationRequest. This may activate sensors in order to compute a new location, unlike getLastKnownLocation(java.lang.String), which will only return a cached fix if available. The given callback will be invoked once and only once, either with a valid location or with a null location if the provider was unable to generate a valid location. A client may supply an optional CancellationSignal. If this is used to cancel the operation, no callback should be expected after the cancellation. This method may return locations from the very recent past (on the order of several seconds), but will never return older locations (for example, several minutes old or older). Clients may rely upon the guarantee that if this method returns a location, it will represent the best estimation of the location of the device in the present moment. Clients calling this method from the background may notice that the method fails to determine a valid location fix more often than while in the foreground. Background applications may be throttled in their location accesses to some degree. The given location request may be used to provide hints on how a fresh location is computed if necessary. In particular LocationRequest#getDurationMillis() can be used to provide maximum duration allowed before failing. The system will always cap the maximum amount of time a request for current location may run to some reasonable value (less than a minute for example) before the request is failed. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters provider String: a provider listed by getAllProviders() This value cannot be null. locationRequest LocationRequest: the location request containing location parameters This value cannot be null. cancellationSignal CancellationSignal: an optional signal that allows for cancelling this call This value may be null. executor Executor: the callback will take place on this Executor This value cannot be null. Callback and listener events are dispatched through this Executor, providing an easy way to control which thread is used. To dispatch events through the main thread of your application, you can use Context.getMainExecutor(). Otherwise, provide an Executor that dispatches to an appropriate thread. consumer Consumer: the callback invoked with either a Location or null public void getCurrentLocation (String provider, CancellationSignal cancellationSignal, Executor executor, Consumer consumer) Asynchronously returns a single current location fix from the given provider. See getCurrentLocation(java.lang.String, android.location.LocationRequest, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) for more information. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters provider String: a provider listed by getAllProviders() This value cannot be null. cancellationSignal CancellationSignal: an optional signal that allows for cancelling this call This value may be null. executor Executor: the callback will take place on this Executor This value cannot be null. Callback and listener events are dispatched through this Executor, providing an easy way to control which thread is used. To dispatch events through the main thread of your application, you can use Context.getMainExecutor(). Otherwise, provide an Executor that dispatches to an appropriate thread. consumer Consumer: the callback invoked with either a Location or null public String getGnssHardwareModelName () Returns the model name (including vendor and hardware/software version) of the GNSS hardware driver, or null if this information is not available. No device-specific serial number or ID is returned from this API. public int getGnssYearOfHardware () Returns the model year of the GNSS hardware and software build, or 0 if the model year is before 2016. public Location getLastKnownLocation (String provider) Gets the last known location from the given provider, or null if there is no last known location. The returned location may be quite old in some circumstances, so the age of the location should always be checked. This will never activate sensors to compute a new location, and will only ever return a cached location. See also getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) which will always attempt to return a current location, but will potentially use additional power in the course of the attempt as compared to this method. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters provider String: a provider listed by getAllProviders() This value cannot be null. Returns Location the last known location for the given provider, or null if not available public ProviderProperties getProviderProperties (String provider) Returns the properties of the given provider, or null if the properties are currently unknown. Provider properties may change over time, although this is discouraged, and should be rare. The most common transition is when provider properties go from being unknown to known, which is most common near boot time. Parameters provider String: a provider listed by getAllProviders() This value cannot be null. Returns ProviderProperties location provider properties, or null if properties are currently unknown Throws IllegalArgumentException if provider is null or does not exist public List getProviders (boolean enabledOnly) Returns a list of the names of available location providers. If enabledOnly is false, this is functionally the same as getAllProviders(). Parameters enabledOnly boolean: if true then only enabled providers are included Returns List list of provider names This value cannot be null. public List getProviders (Criteria criteria, boolean enabledOnly) Returns a list of the names of available location providers that satisfy the given criteria. Parameters criteria Criteria: the criteria that providers must match This value cannot be null. enabledOnly boolean: if true then only enabled providers are included Returns List list of provider names This value cannot be null. Throws IllegalArgumentException if criteria is null public boolean hasProvider (String provider) Returns true if the given location provider exists on this device, irrespective of whether it is currently enabled or not. Parameters provider String: a potential location provider This value cannot be null. Returns boolean true if the location provider exists, false otherwise Throws IllegalArgumentException if provider is null public boolean isLocationEnabled () Returns the current enabled/disabled state of location. To listen for changes, see MODE_CHANGED_ACTION. Returns boolean true if location is enabled and false if location is disabled. public boolean registerAntennaInfoListener (Executor executor, GnssAntennaInfo.Listener listener) Registers a GNSS antenna info listener that will receive all changes to antenna info. Use getGnssAntennaInfos() to get current antenna info. Not all GNSS chipsets support antenna info updates, see getGnssCapabilities(). If unsupported, the listener will never be invoked. Prior to Android S, this requires the Manifest.permission#ACCESS_FINE_LOCATION permission. Parameters executor Executor: the executor that the listener runs on This value cannot be null. Callback and listener events are dispatched through this Executor, providing an easy way to control which thread is used. To dispatch events through the main thread of your application, you can use Context.getMainExecutor(). Otherwise, provide an Executor that dispatches to an appropriate thread. listener GnssAntennaInfo.Listener: the listener to register This value cannot be null. Returns boolean true always public boolean registerGnssStatusCallback (Executor executor, GnssStatus.Callback callback) Registers a GNSS status callback. GNSS status information will only be received while the GPS_PROVIDER is enabled, and while the client app is in the foreground. Requires Manifest.permission.ACCESS_FINE_LOCATION Parameters executor Executor: the executor that the callback runs on This value cannot be null. Callback and listener events are dispatched through this Executor, providing an easy way to control which thread is used. To dispatch events through the main thread of your application, you can use Context.getMainExecutor(). Otherwise, provide an Executor that dispatches to an appropriate thread. callback GnssStatus.Callback: the callback to register This value cannot be null. Returns boolean true always public void requestFlush (String provider, PendingIntent pendingIntent, int requestCode) Requests that the given provider flush any batched locations to listeners. The given PendingIntent (registered with the provider) will be sent with KEY_FLUSH_COMPLETE present in the extra keys, and requestCode as the corresponding value. Parameters provider String: a provider listed by getAllProviders() This value cannot be null. pendingIntent PendingIntent: a pendingIntent registered under the provider This value cannot be null. requestCode int: an arbitrary integer that will be passed back as the extra value for KEY_FLUSH_COMPLETE public void requestLocationUpdates (String provider, long minTimeMs, float minDistanceM, LocationListener listener) Register for location updates from the given provider with the given arguments, and a callback on the Looper of the calling thread. See requestLocationUpdates(java.lang.String, android.location.LocationRequest, java.util.concurrent.Executor, android.location.LocationListener) for more detail on how this method works. Prior to Jellybean, the minTime parameter was only a hint, and some location provider implementations ignored it. For Jellybean and onwards however, it is mandatory for Android compatible devices to observe both the minTime and minDistance parameters. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters provider String: a provider listed by getAllProviders() This value cannot be null. minTimeMs long: minimum time interval between location updates in milliseconds minDistanceM float: minimum distance between location updates in meters listener LocationListener: the listener to receive location updates This value cannot be null. Added in API level 9 Deprecated in API level 31 public void requestLocationUpdates (long minTimeMs, float minDistanceM, Criteria criteria, LocationListener listener, Looper looper) This method was deprecated in API level 31. Use requestLocationUpdates(java.lang.String, long, float, android.location.LocationListener, android.os.Looper) instead to explicitly select a provider. Register for location updates using a provider selected through the given Criteria, and a callback on the specified Looper. Note: Since Android KitKat, Criteria requests will always result in using the FUSED_PROVIDER. See requestLocationUpdates(java.lang.String, android.location.LocationRequest, java.util.concurrent.Executor, android.location.LocationListener) for more detail on how this method works. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters minTimeMs long: minimum time interval between location updates in milliseconds minDistanceM float: minimum distance between location updates in meters criteria Criteria: contains parameters to choose the appropriate provider for location updates This value cannot be null. executor Executor: the executor handling listener callbacks This value cannot be null. Callback and listener events are dispatched through this Executor, providing an easy way to control which thread is used. To dispatch events through the main thread of your application, you can use Context.getMainExecutor(). Otherwise, provide an Executor that dispatches to an appropriate thread. listener LocationListener: the listener to receive location updates This value cannot be null. Added in API level 9 Deprecated in API level 30 public void requestSingleUpdate (String provider, PendingIntent pendingIntent) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. Register for a single location update using a named provider and pending intent. See requestLocationUpdates(long, float, android.location.Criteria, android.app.PendingIntent) for more detail on how to use this method. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters provider String: a provider listed by getAllProviders() This value cannot be null. pendingIntent PendingIntent: the pending intent to send location updates This value cannot be null. Added in API level 9 Deprecated in API level 30 public void requestSingleUpdate (Criteria criteria, PendingIntent pendingIntent) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. Register for a single location update using a Criteria and pending intent. Note: Since Android KitKat, Criteria requests will always result in using the FUSED_PROVIDER. See requestLocationUpdates(long, float, android.location.Criteria, android.app.PendingIntent) for more detail on how to use this method. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters criteria Criteria: contains parameters to choose the appropriate provider for location updates This value cannot be null. pendingIntent PendingIntent: the pending intent to send location updates This value cannot be null. Added in API level 9 Deprecated in API level 30 public void requestSingleUpdate (String provider, LocationListener listener, Looper looper) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. Register for a single location update using the named provider and a callback. See requestLocationUpdates(java.lang.String, long, float, android.location.LocationListener, android.os.Looper) for more detail on how to use this method. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters provider String: a provider listed by getAllProviders() This value cannot be null. listener LocationListener: the listener to receive location updates This value cannot be null. looper Looper: the looper handling listener callbacks, or null to use the looper of the calling thread Added in API level 9 Deprecated in API level 30 public void requestSingleUpdate (Criteria criteria, LocationListener listener, Looper looper) This method was deprecated in API level 30. Use getCurrentLocation(java.lang.String, android.os.CancellationSignal, java.util.concurrent.Executor, java.util.function.Consumer) instead as it does not carry a risk of extreme battery drain. Register for a single location update using a Criteria and a callback. Note: Since Android KitKat, Criteria requests will always result in using the FUSED_PROVIDER. See requestLocationUpdates(long, float, android.location.Criteria, android.app.PendingIntent) for more detail on how to use this method. Requires Manifest.permission.ACCESS_COARSE_LOCATION or Manifest.permission.ACCESS_FINE_LOCATION Parameters criteria Criteria: contains parameters to choose the appropriate provider for location updates This value cannot be null. listener LocationListener: the listener to receive location updates This value cannot be null. looper Looper: the looper handling listener callbacks, or null to use the looper of the calling thread public boolean sendExtraCommand (String provider, String command, Bundle extras) Sends additional commands to a location provider. Can be used to support provider specific extensions to the Location Manager API. Parameters provider String: a provider listed by getAllProviders() This value cannot be null. command String: name of the command to send to the provider This value cannot be null. extras Bundle: optional arguments for the command, or null Returns boolean true always, the return value may be ignored public void setTestProviderLocation (String provider, Location location) Sets a new location for the given test provider. This location will be identiable as a mock location to all clients via Location#isMock(). The location object must have a minimum number of fields set to be considered valid, as per documentation on Location class. Parameters provider String: the provider name This value cannot be null. location Location: the mock location This value cannot be null. Added in API level 3 Deprecated in API level 29 public void setTestProviderStatus (String provider, int status, Bundle extras, long updateTime) This method was deprecated in API level 29. This method has no effect. This method has no effect as provider status has been deprecated and is no longer supported. Parameters provider String: This value cannot be null. status int extras Bundle: This value may be null. updateTime long public void unregisterGnssStatusCallback (GnssStatus.Callback callback) Removes a GNSS status callback. Parameters callback GnssStatus.Callback: GNSS status callback object to remove This value cannot be null.

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