

Added in [API level 28](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

SEService



Kotlin | [Java](#) (/reference/android/se/omapi/SEService)

```
class SEService
```

[kotlin.Any](#) (<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-any/index.html>)

↳ [android.se.omapi.SEService](#) (#)

The SEService realises the communication to available Secure Elements on the device. This is the entry point of this API. It is used to connect to the infrastructure and get access to a list of Secure Element Readers.

Summary

Nested classes

abstract

[OnConnectedListener](#)

(/reference/kotlin/android/se/omapi/SEService.OnConnectedListener)

Interface to send call-backs to the application when the service is connected.

Constants

static [String](#)

[ACTION_SECURE_ELEMENT_STATE_CHANGED](#)

(<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/index.html>) (#ACTION_SECURE_ELEMENT_STATE_CHANGED:kotlin.S

	Broadcast Action: Intent to notify if the secure element s changed.
static <u>String</u> (https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/index.html)	<u>EXTRA_READER_NAME</u> (#EXTRA_READER_NAME:kotlin.S Mandatory extra containing the reader name of the state changed secure element.
static <u>String</u> (https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/index.html)	<u>EXTRA_READER_STATE</u> (#EXTRA_READER_STATE:kotlin.String) Mandatory extra containing the connected state of the s changed secure element.

Public constructors

SEService

(#SEService(android.content.Context,%20java.util.concurrent.Executor,%20android.se.omapi.SEService.O
(**context**: Context (<https://developer.android.com/reference/kotlin/android/content/Context.html>), **ex**
(<https://developer.android.com/reference/kotlin/java/util/concurrent/Executor.html>),
listener: SEService.OnConnectedListener (/reference/kotlin/android/se/omapi/SEService.OnConr

Establishes a new connection that can be used to connect to all the Secure Elements available in the syste

Public methods

Array

(<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-array/index.html>)

<Reader (/reference/kotlin/android/se/omapi/Reader)
!>

getReaders (#getReaders())()

Returns an array of available Secure Element
readers.

Reader (/reference/kotlin/android/se/omapi/Reader)

getUiccReader (#getUiccReader(kotlin.Int))

(**slotNumber**: Int

(<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-int/index.html>)

)

	Obtain a UICC Reader instance with specific slot number from the SecureElementService
<u>String</u> https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/index.html	getVersion (#getVersion())() Returns the version of the OpenMobile API specification this implementation is based on.
<u>Boolean</u> https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-boolean/index.html	isConnected (#isConnected())() Tells whether or not the service is connected.
<u>Unit</u> https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-unit/index.html	shutdown (#shutdown())() Releases all Secure Elements resources allocated by this SEService (including any binding to an underlying service).

Constants

ACTION_SECURE_ELEMENT_STATE_CHANGED

<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>

```
static val ACTION_SECURE_ELEMENT_STATE_CHANGED: String (https://kotlinlang.org/api/latest/jv
```

Broadcast Action: Intent to notify if the secure element state is changed.

Value: "android.se.omapi.action.SECURE_ELEMENT_STATE_CHANGED"

EXTRA_READER_NAME

Added in API Level 3

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
static val EXTRA_READER_NAME: String (https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/in)
```

Mandatory extra containing the reader name of the state changed secure element.

Value: "android.se.omapi.extra.READER_NAME"

See Also

[android.se.omapi.Reader#getName\(\)](#) (/reference/kotlin/android/se/omapi/Reader#getName())

EXTRA_READER_STATE

Added in API Level 3

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
static val EXTRA_READER_STATE: String (https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/in)
```

Mandatory extra containing the connected state of the state changed secure element. True if the secure element is connected correctly, false otherwise.

Value: "android.se.omapi.extra.READER_STATE"

Public constructors

SEService

Since Android level 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
SEService(  
    context: Context (https://developer.android.com/reference/kotlin/android/content/Context.html),  
    executor: Executor (https://developer.android.com/reference/kotlin/java/util/concurrent/Executor)  
    listener: SEService.OnConnectedListener (/reference/kotlin/android/se/omapi/SEService.OnConnectedListener)
```

Establishes a new connection that can be used to connect to all the Secure Elements available in the system. The connection process can be quite long, so it happens in an asynchronous way. It is usable only if the specified listener is called or if `isConnected()` returns `true`.

The call-back object passed as a parameter will have its `onConnected()` method called when the connection actually happen.

Parameters

<code>context</code>	Context (https://developer.android.com/reference/kotlin/android/content/Context.html) the context of the calling application. Cannot be <code>null</code> .
<code>executor</code>	Executor (https://developer.android.com/reference/kotlin/java/util/concurrent/Executor) : an Executor which will be used when invoking the callback. This value cannot be <code>null</code> .
<code>listener</code>	SEService.OnConnectedListener (/reference/kotlin/android/se/omapi/SEService.OnConnectedListener): a <code>OnConnectedListener</code> object. This value cannot be <code>null</code> .

Public methods

getReaders 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
fun getReaders(): Array (https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-array/index.html) <Reader
```

Returns an array of available Secure Element readers. There must be no duplicated objects in the returned list. All available readers shall be listed even if no card is inserted.

Return

Array

(<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-array/index.html>)

<Reader (/reference/kotlin/android/se/omapi/Reader)!>

An array of Readers. If there are no readers the returned array is of length 0. This value cannot be **null**.

getUiccReader

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
fun getUiccReader(slotNumber: Int (https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-int/index.htm)
```

Obtain a UICC Reader instance with specific slot number from the SecureElementService

Parameters

slotNumber

Int (<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-int/index.html>): The index of the uicc slot. The index starts from 1.

Return

[Reader](#) (/reference/kotlin/android/se/omapi/Reader)

A Reader object for this uicc slot.
This value cannot be `null`.

Exceptions

`java.lang.IllegalArgumentException` if the reader object corresponding to the `uiccSlotNumber` is not exist.

~~getVersion~~ Available 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
fun getVersion(): String
```

Returns the version of the OpenMobile API specification this implementation is based on.

Return

[String](https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/index.html)
(<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-string/index.html>)

String containing the OpenMobile API version (e.g. "3.0").
This value cannot be `null`.

~~isConnected~~ Available 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
fun isConnected(): Boolean
```

Tells whether or not the service is connected.

Return

Boolean

(<https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-boolean/index.html>)

true if the service is connected.

~~shutdown~~ shutdown level 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

```
fun shutdown(): Unit (https://kotlinlang.org/api/latest/jvm/stdlib/kotlin/-unit/index.html)
```

Releases all Secure Elements resources allocated by this SEService (including any binding to an underlying service). As a result `isConnected()` will return false after `shutdown()` was called. After this method call, the SEService object is not connected. This method should be called when connection to the Secure Element is not needed or in the termination method of the calling application (or part of this application) which is bound to this SEService.

Content and code samples on this page are subject to the licenses described in the [Content License](#) (/license).
Java and OpenJDK are trademarks or registered trademarks of Oracle and/or its affiliates.

Last updated 2026-02-13 UTC.