



**Application Note**  
AN1012-00, 2014-05-23  
RcpApi2 Migration



## Notice

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## Revision History

Version	Date	Changes
00	2014-05-23	Initially released

RcpApi2 is newly using Singleton pattern. A singleton class returns the same instance no matter how many times an application requests it. By using RcpApi2, you can build your application more easily without considering passing RCP instance within ViewControllers or Activities.

To know more about Singleton pattern, please refer to [http://en.wikipedia.org/wiki/Singleton\\_pattern](http://en.wikipedia.org/wiki/Singleton_pattern) or <https://developer.apple.com/library/ios/documentation/general/conceptual/DevPedia-CocoaCore/Singleton.html>

## iOS migration

- ✓ #import "RcpApi2.h" instead of #import "RcpApi.h"
- ✓ Use RcpDelegate2 instead of RcpDelegate
- ✓ Remove property which is pointing to RcpApi in your ViewController.

```
@property (nonatomic, strong, readonly) RcpApi *rcp;
```

RcpApi



```
@property (nonatomic, strong, readonly) RcpApi2 *rcp;
```

RcpApi2

- ✓ Use [RcpApi2 sharedInstance] instead of self.rcp.

```
self.rcp.delegate = self;  
[self.rcp open];
```

RcpApi



```
[RcpApi2 sharedInstance].delegate = self;  
[[RcpApi2 sharedInstance] open];
```

RcpApi2

## Android migration

- ✓ import com.phychips.rcp.RcpApi 2 instead of import com.phychips.rcp.RcpApi
- ✓ Use iRcpEvent2 instead of iRcpEvent
- ✓ Use RcpApi2.getInstance() instead of RcpApi

```
RcpApi.setRcpEvent(this);  
RcpApi.open();
```

**RcpApi**



```
RcpApi2.getInstance().setOnRcpEventListener(this);  
RcpApi2.getInstance().open();
```

**RcpApi2**

- ✓ All methods are not using class parameters such as RcpTypeCTag , RcpFhLbtParam, etc.
- ✓ For more details, refer to SDK manual.

```
RcpTypeCTag tag = new RcpTypeCTag(epc.length() / 2, data_length);  
tag.password = Long.parseLong(tvPassword.getText().toString(), 16);  
tag.epc = RcpLib.convertStringToByteArray(epc);  
tag.start_address = Integer.parseInt(tvAddress.getText().toString(), 16);  
tag.memory_bank = option;
```

```
RcpApi.readFromTagMemory(tag);
```

**RcpApi**



```
RcpApi2.getInstance().readFromTagMemory(  
    Long.parseLong(tvPassword.getText().toString(), 16),  
    RcpLib.convertStringToByteArray(epc),  
    option,  
    Integer.parseInt(tvAddress.getText().toString(), 16),  
    data_length);
```

**RcpApi2**

**ARETE mobile Customer Service**

Phone: + 82 42 864 2402

Fax: + 82 42 864 2403

Email: sales@phychips.com

**Address**

PHYCHIPS Inc.

#104 Migun Technoworld 2, 187 Techno 2-ro, Yuseong-gu, Daejeon, Korea 305-500

**Working Day and time**

Monday to Friday

09:00~18:00(Korean Time, GMT Time + 9 hours)

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