

# The Qi Product Certification System

June 2017



**WIRELESS POWER**

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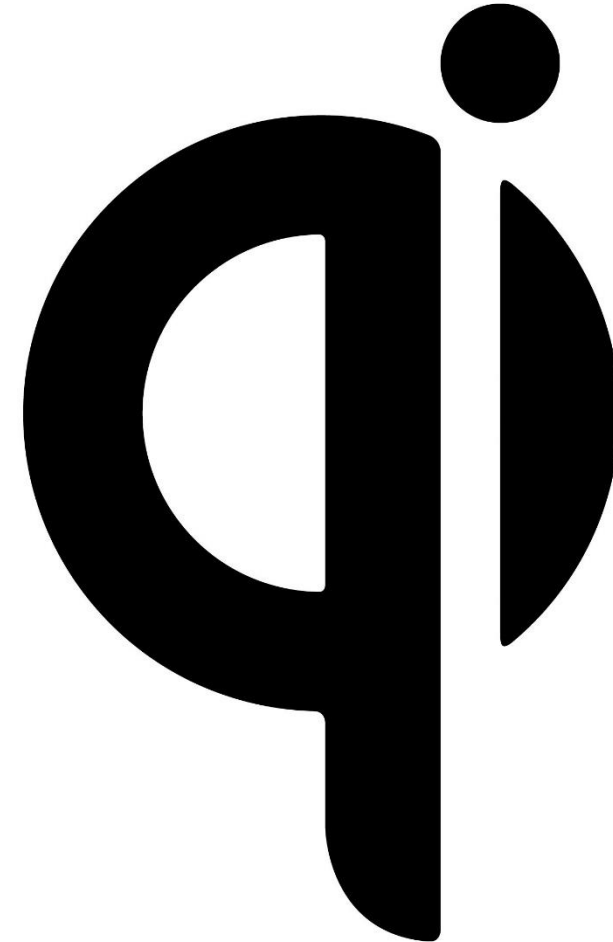
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# Product Certification

- Why should I certify my product?
- How can I recognize a Qi Certified product?
- Can everyone certify a product?
- What is the procedure?
- Special cases

# Why should I certify my product?

- Qi Certified products have been tested for compatibility and safety
- The Qi logo is the sign of compatibility & safety
- This presentation explains product certification:
  - How, who, and special cases



# How to recognize a Qi Certified product

1. By the Qi logo on the product
  - Easy to recognize
  - But also easy to fake
2. By the Qi Certificate of Registration
  - Certificate is valid when the URL shows a picture of the same product
3. By searching in the Qi Certified Product Database
  - Not found? Not Certified!

<https://www.wirelesspowerconsortium.com/products/>



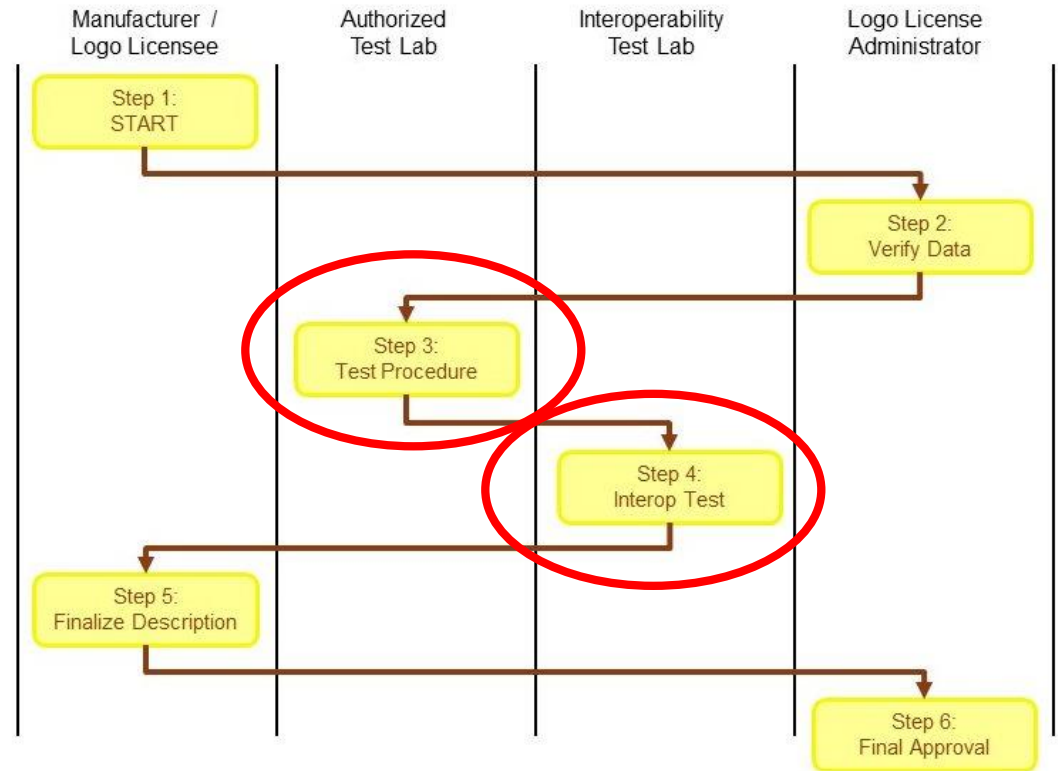
# Can everyone certify a product?

- Only companies that are a member of the WPC
  - Product is removed from the Qi Certified Product Database when the owner withdraws from the WPC
- Only companies that signed the [Qi Logo License Agreement](#)
  - The Qi logo is a registered trademark.



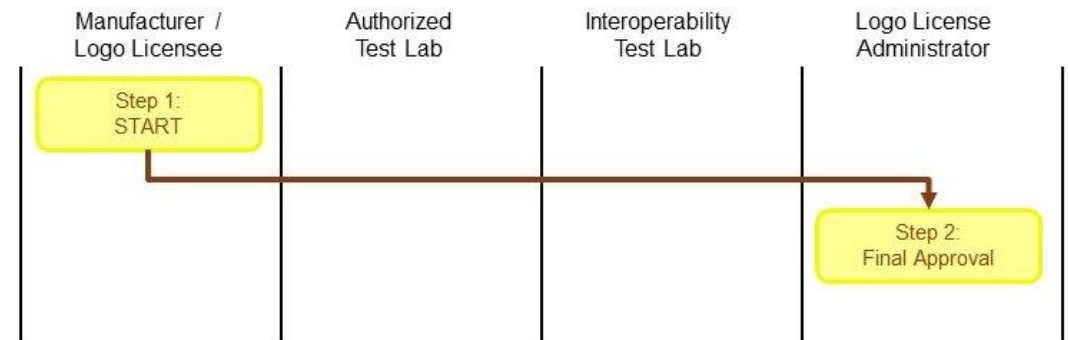
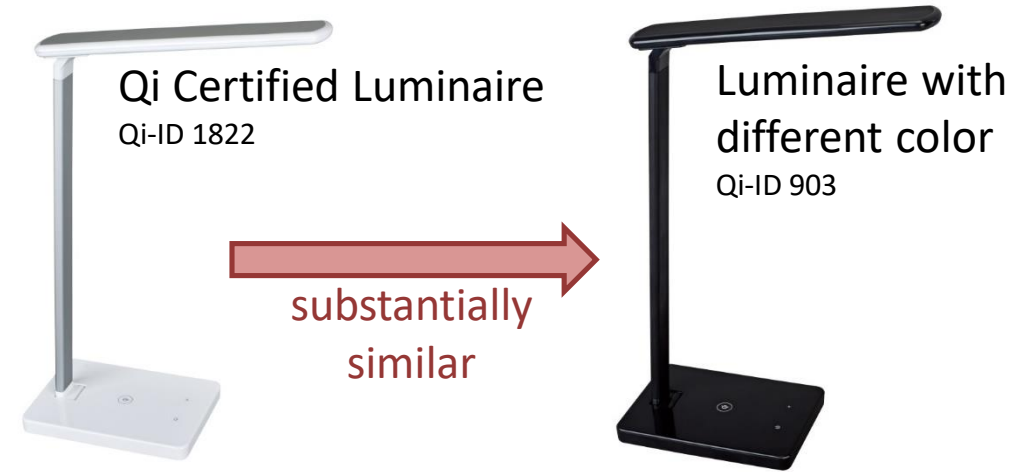
# The Product Certification Procedure

- Step 1 & 2: administration
- **Step 3: Test by an Authorized Test Lab**
  - Using the test procedures described in Part 3 of the Qi Specification.
  - See presentation on “Compliance Testing of Qi products” by Lam Chi Ho
- **Step 4: Test by an Interoperability Test Lab**
  - Verifies that the new product is compatible with all previously certified products.
  - By Eurofins in Belgium or by TTA in Korea
- Step 5 & 6: administration



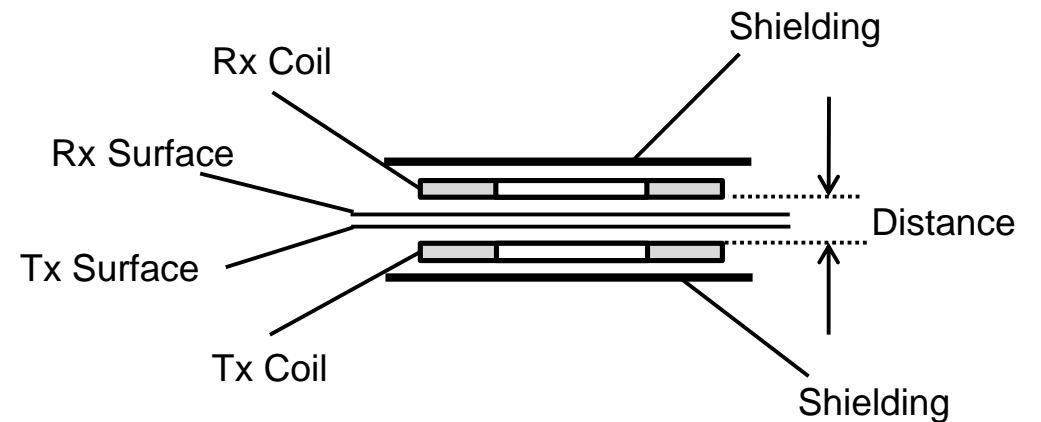
# Special Case: Similar Products

- Testing is not necessary when the new product is identical with a previously certified product, for example
  - Other color
  - Other brand
- Simplified registration procedure
  - Administration only



# When are products not similar?

- Any change of magnetic properties:
  - Different coil
  - Different shielding
  - Change in coil-surface distance
  - Change in 'friendly metals'
- Change in firmware that influences control protocol and communication between Rx and Tx



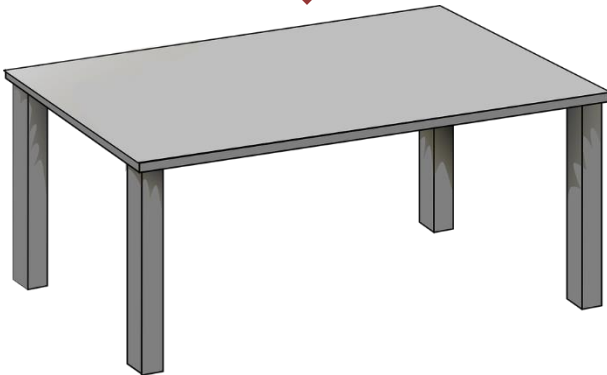
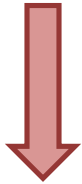


# Special Case: phone covers

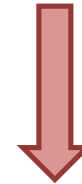
- A phone cover must be tested in combination with a mobile phone
  - For example the iPhone 6
- Another phone has a different distribution of metals
  - Foreign Object Detection will not work correctly when an iPhone 6 cover is used with an iPhone 7
- Partial re-testing is needed
  - Simplified certification procedure



# Special case: Tx subsystems



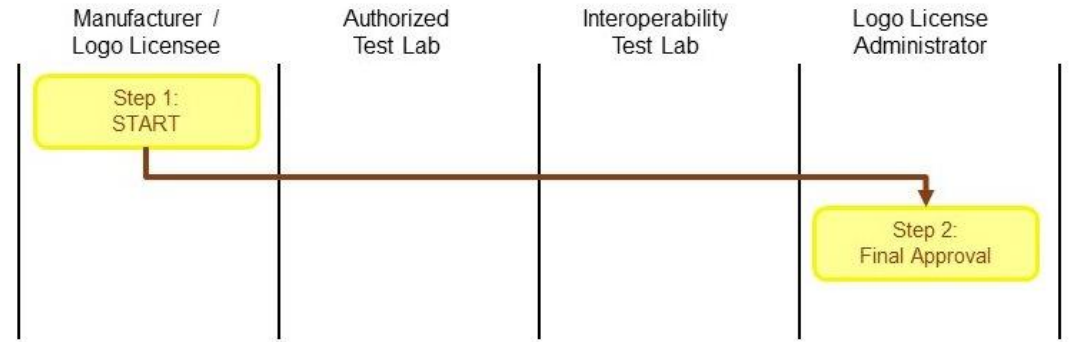
Tx subsystem



System with  
embedded  
Tx subsystem

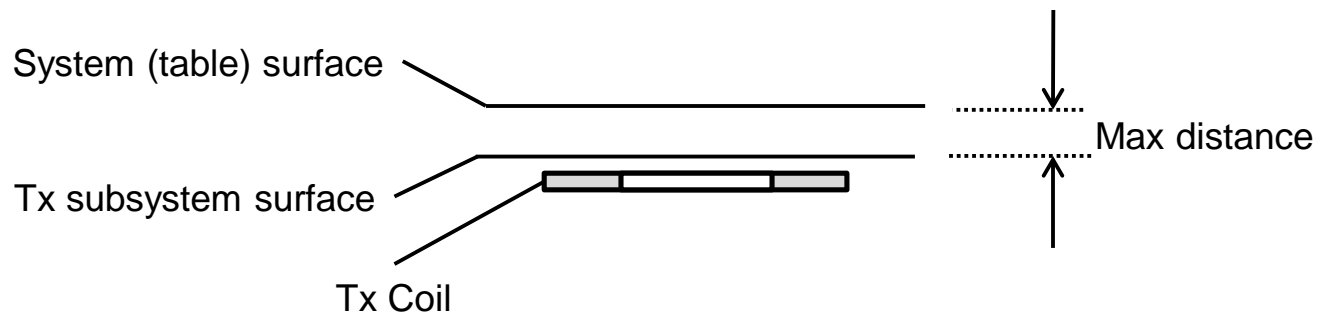
# Testing furniture and cars?

- It is not necessary to test a system with an embedded Tx subsystem
  - Simplified procedure applies
- Only when the embedded Tx is a Qi Certified Tx Subsystem



# Tx subsystem

- Rules for Tx subsystem
  - Includes the means to attach the Tx into the complete system.
  - The minimum and maximum distance between the top of the sub-system and the surface of the complete system must be specified.

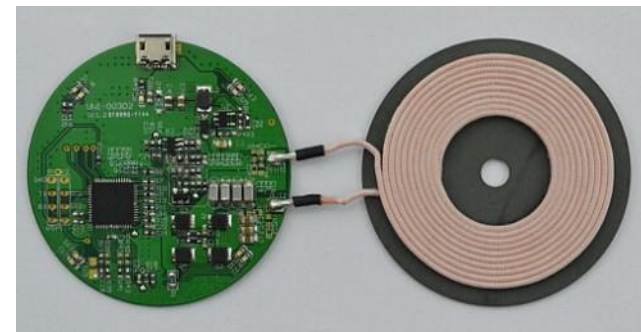


Tx subsystem:



Attachment point

Not a Tx subsystem:

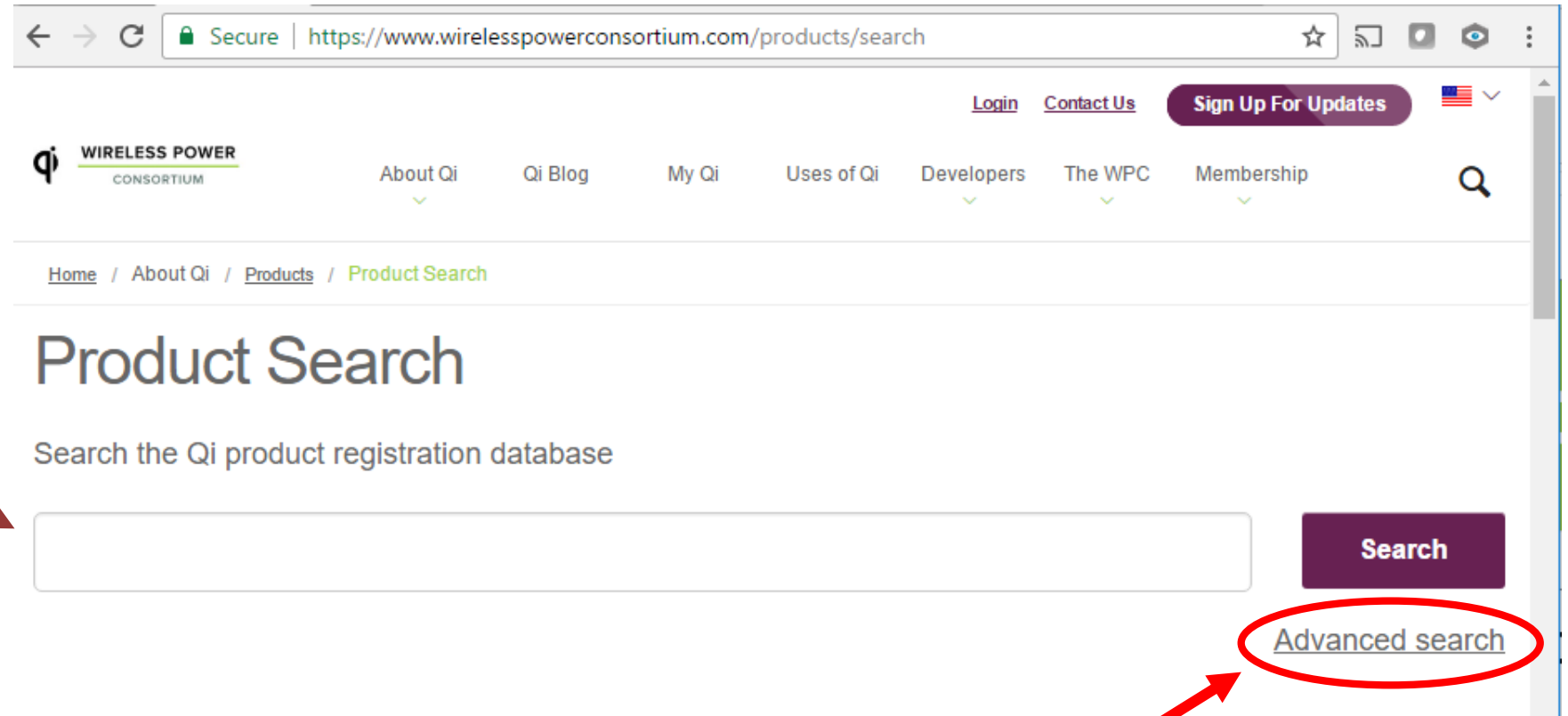


# Searching for certified products

<https://www.wirelesspowerconsortium.com/products/search>

Type:

- Brand name, or
- Type number, or
- Qi-ID



Advanced Search

# Advanced Search

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## Product Search

Search the Qi product registration database

Qi Registration ID	<input type="text"/>	Product type	-- select -- ▾
Version	--select-- ▾	Include products not currently licensed?	No ▾
Brand name	<input type="text"/>		
Product name	<input type="text"/>		
Type Number / Manufacturer Part Number	<input type="text"/>		

**Search**

Select "Power Class 0 Transmitter" to search for chargers

Select "yes" to include older products



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