

# The Qi Product Certification System

June 2017



**WIRELESS POWER**

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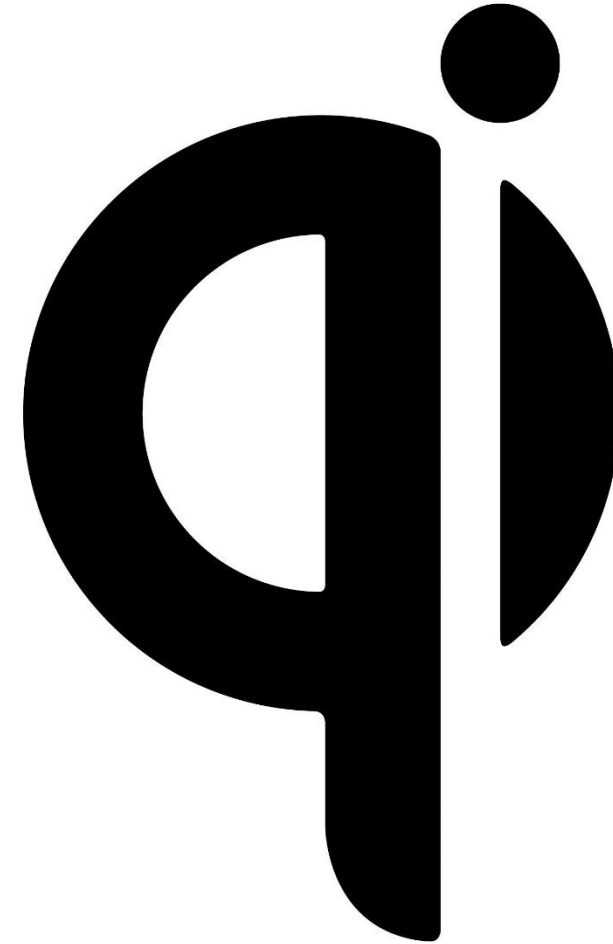
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# Product Certification

- 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/>



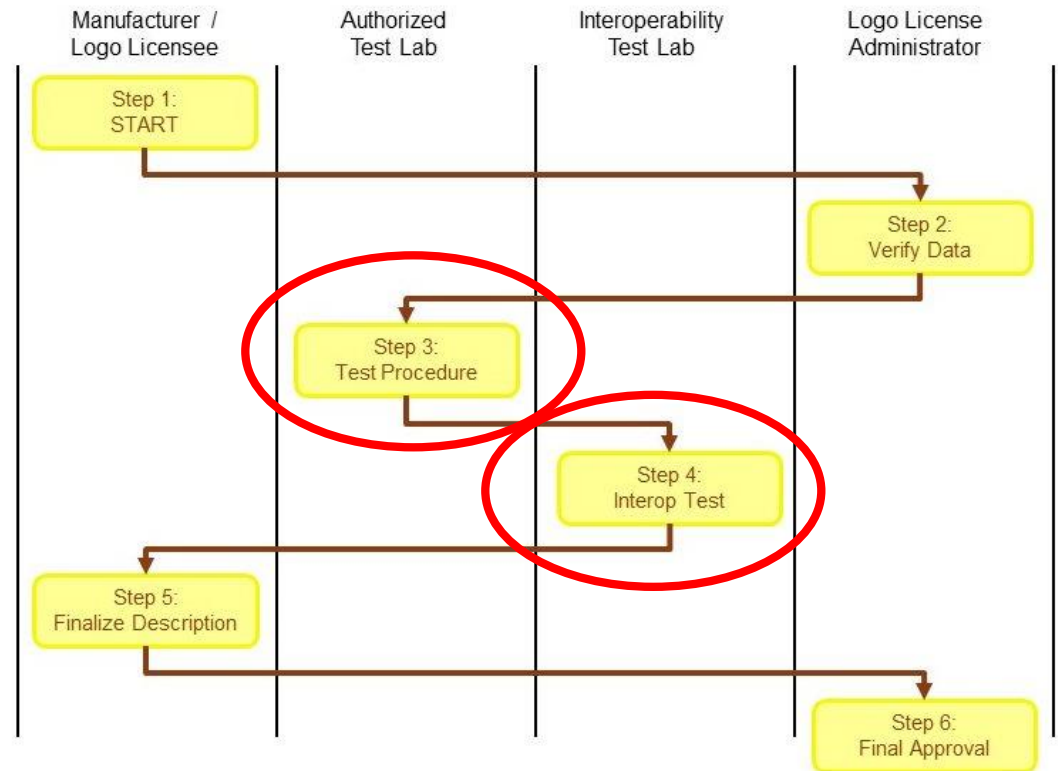
# Can everyone certify a product?

- 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.



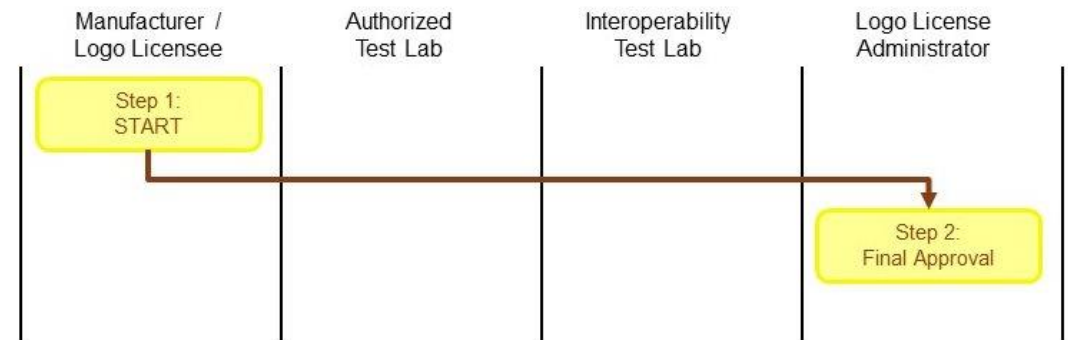
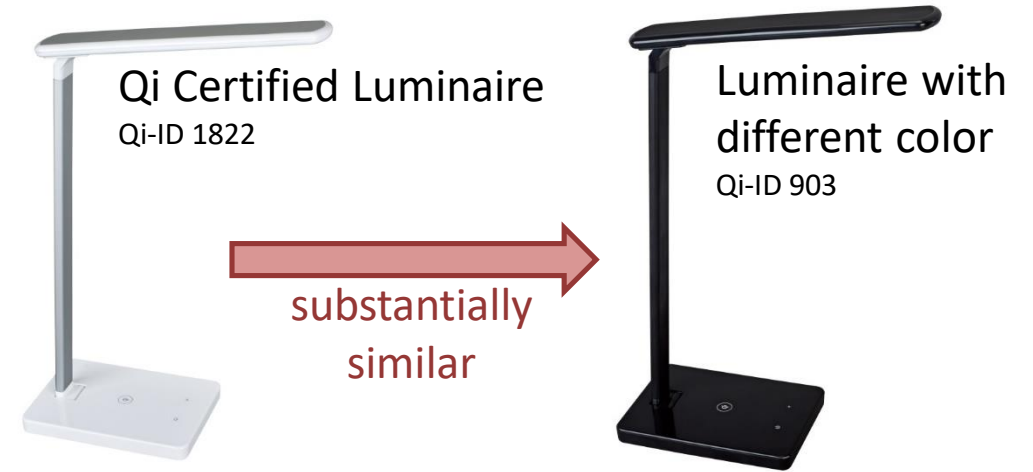
# The Product Certification Procedure

- 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



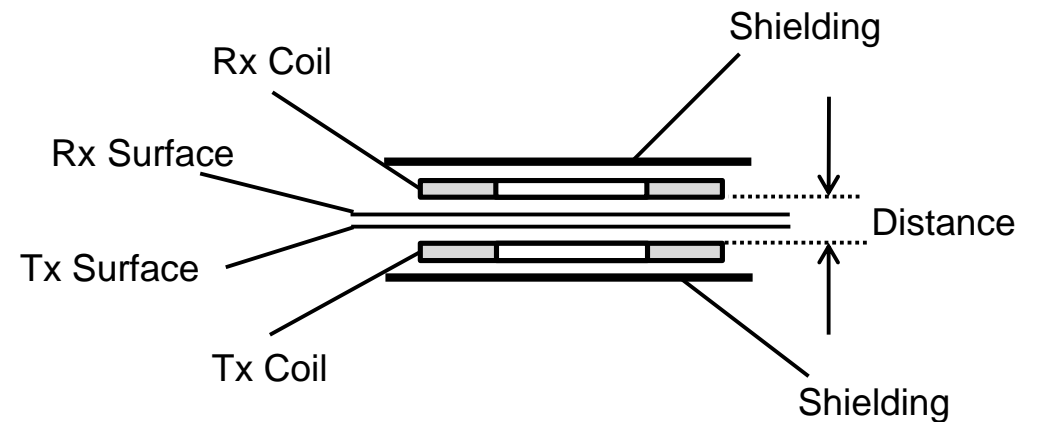
# Special Case: Similar Products

- 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



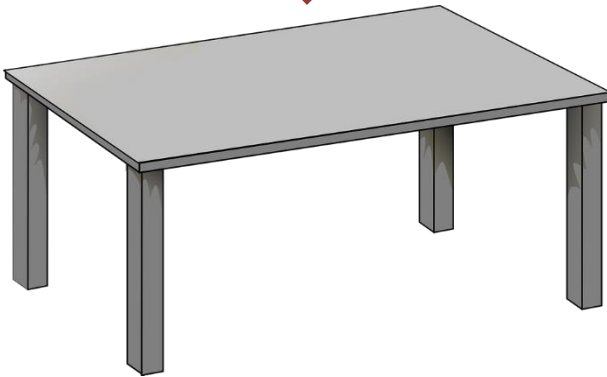
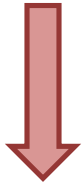


# Special Case: phone covers

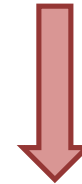
- A phone cover must be tested in combination with a mobile phone
  - For example the iPhone 6
- Another phone has a different distribution of metals
  - Foreign Object Detection will not work correctly when an iPhone 6 cover is used with an iPhone 7
- Partial re-testing is needed
  - Simplified certification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



# Special case: Tx subsystems



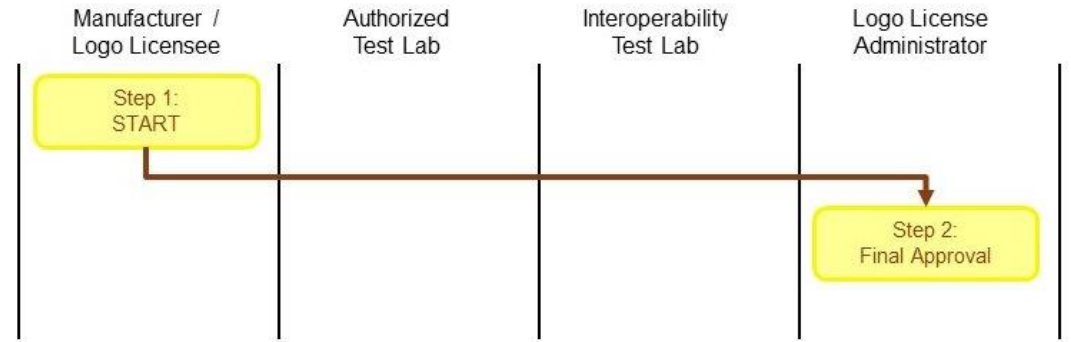
Tx subsystem



System with  
embedded  
Tx subsystem

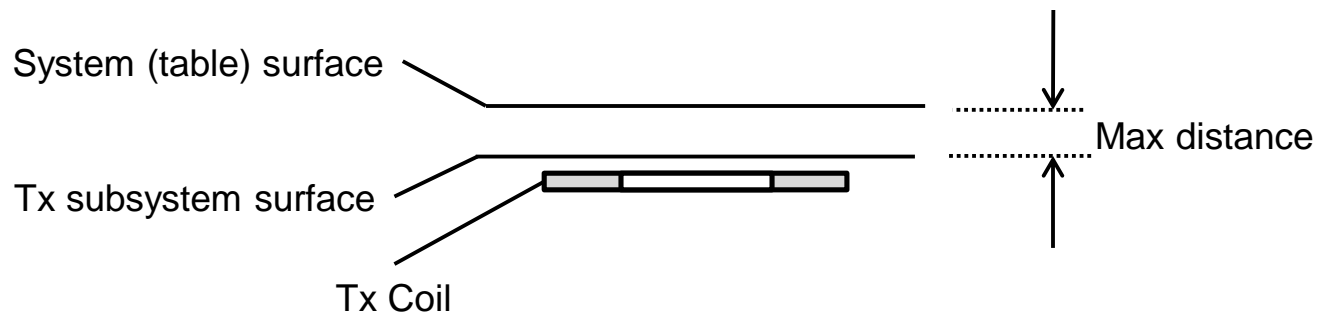
# Testing furniture and cars?

- 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.

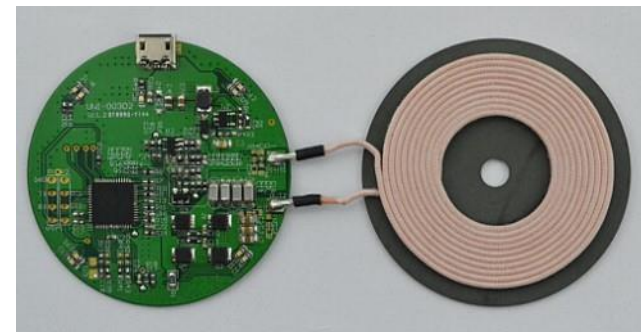


Tx subsystem:



Attachment point

Not a Tx subsystem:

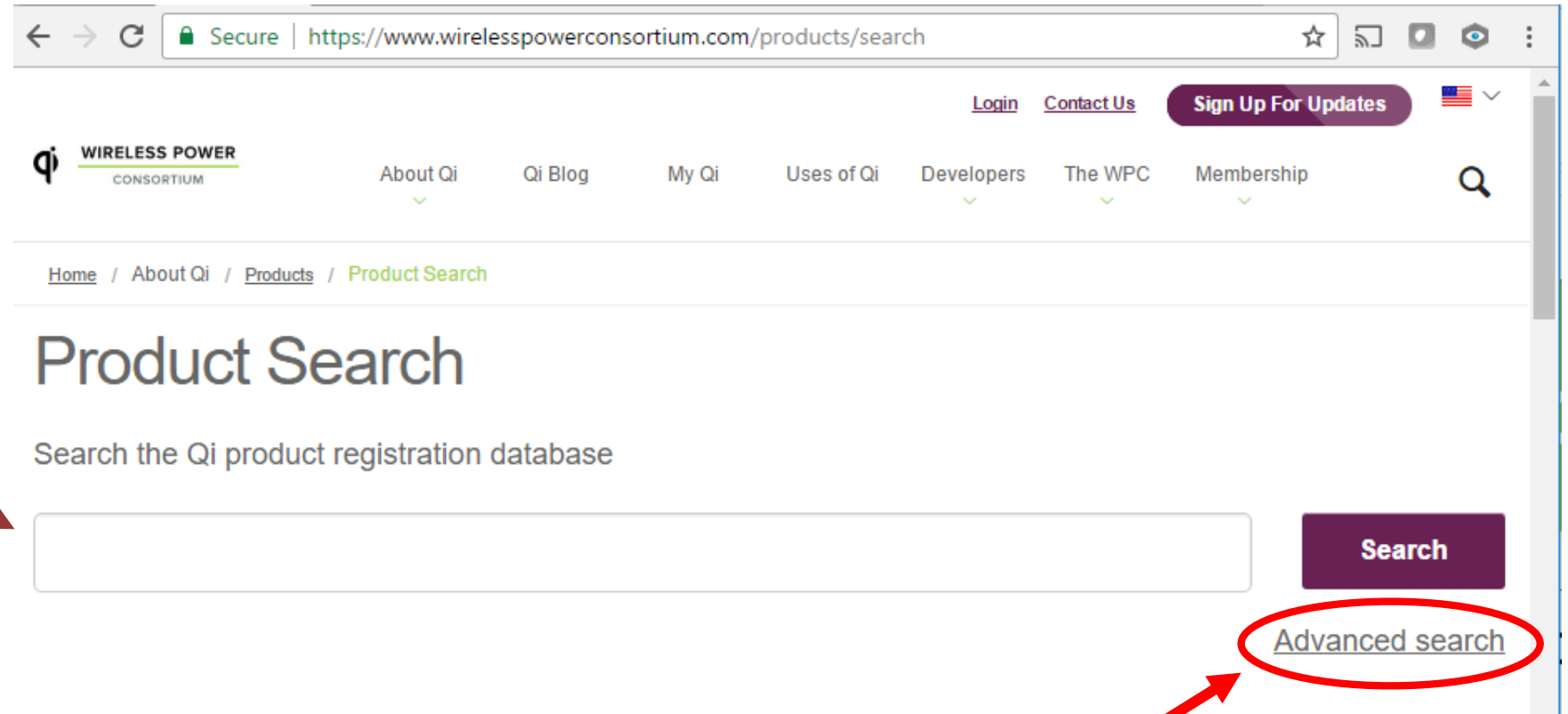


# Searching for certified products

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

Type:

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



Advanced Search

# Advanced Search

The screenshot shows the Qi Product Search page. At the top, there is a navigation bar with links for 'Login', 'Contact Us', and 'Sign Up For Updates'. Below this is a main navigation menu with 'About Qi', 'Qi Blog', 'My Qi', 'Uses of Qi', 'Developers', 'The WPC', and 'Membership'. The breadcrumb trail reads 'Home / About Qi / Products / Product Search'. The main heading is 'Product Search' with the subtext 'Search the Qi product registration database'. The search form includes several input fields: 'Qi Registration ID', 'Version' (a dropdown menu), 'Brand name', 'Product name', and 'Type Number / Manufacturer Part Number'. To the right of these are two more dropdown menus: 'Product type' (currently set to '-- select --') and 'Include products not currently licensed?' (currently set to 'No'). A purple 'Search' button is located at the bottom right of the form. Two red arrows point to the 'Product type' and 'Include products not currently licensed?' dropdowns, with text annotations explaining the selection process.

← → ↻ Secure | <https://www.wirelesspowerconsortium.com/products/search> ☆

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## Product Search

Search the Qi product registration database

Qi Registration ID

Version

Brand name

Product name

Type Number / Manufacturer Part Number

Product type

Include products not currently licensed?

**Search**

Select "Power Class 0 Transmitter" to search for chargers

Select "yes" to include older products



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