

# Web Security and the OWASP Top 10: The Big Picture

## Missing Function Level Access Control

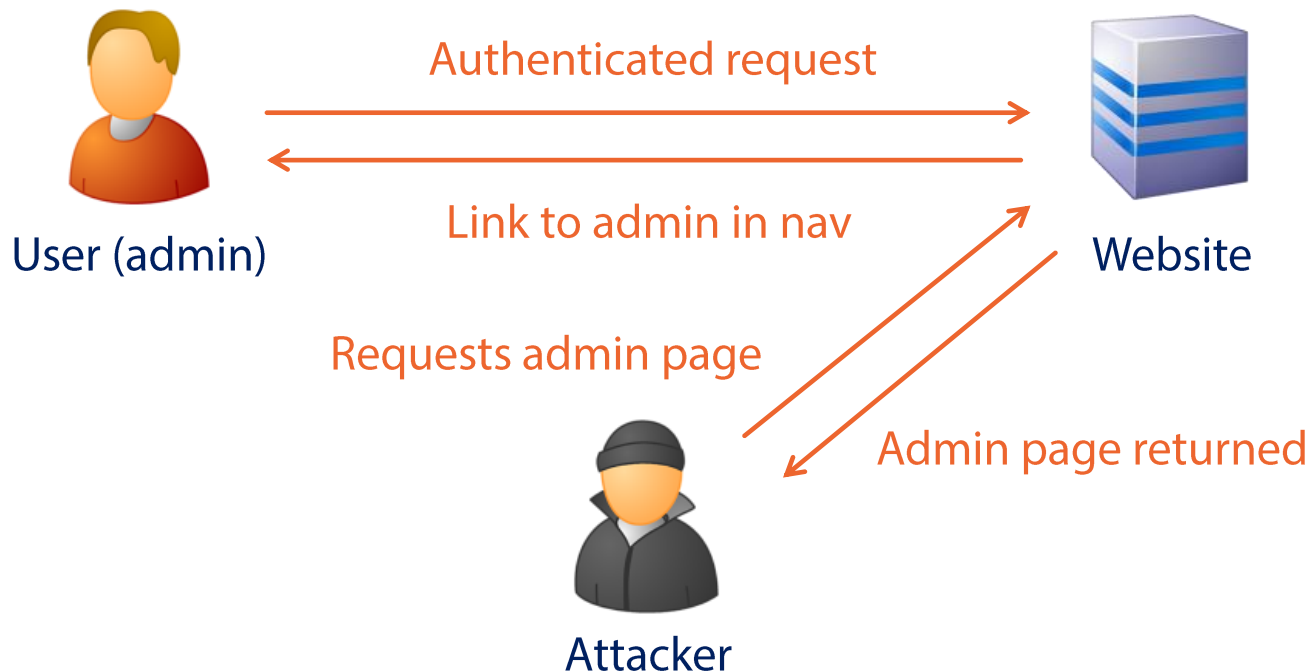
Troy Hunt  
troyhunt.com  
@troyhunt



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# Missing Function Level Access Control

Attack Vectors	Security Weaknesses		Technical Impacts
Exploitability Easy	Prevalence Common	Detectability Average	Impact Moderate



# **Understanding Missing Function Level Access Control**

- **Does the UI show navigation to unauthorised functions?**
- **Are server side authentication or authorisation checks missing?**
- **Are server side checks done that solely rely on information provided by the attacker?**
- **Are system or diagnostic resources accessible without proper authorisation?**
- **Will “forced browsing” disclose unsecured resources?**

# Common Defences Against Missing Function Level Access Control

Define a clear  
authorisation  
model

- Define centrally and consistently
- Use roles and apply membership

Check for  
forced  
browsing

- Check for default framework resources
- Automated scanners are excellent for this

Always test  
unprivileged  
roles

- Capture and replay privileged requests
- Include POST requests and async calls

# Missing Access Controls in the Wild – Westfield

## Westfield iPhone app in privacy fiasco

CHRIS GRIFFITH | THE AUSTRALIAN | SEPTEMBER 15, 2011 2:51PM

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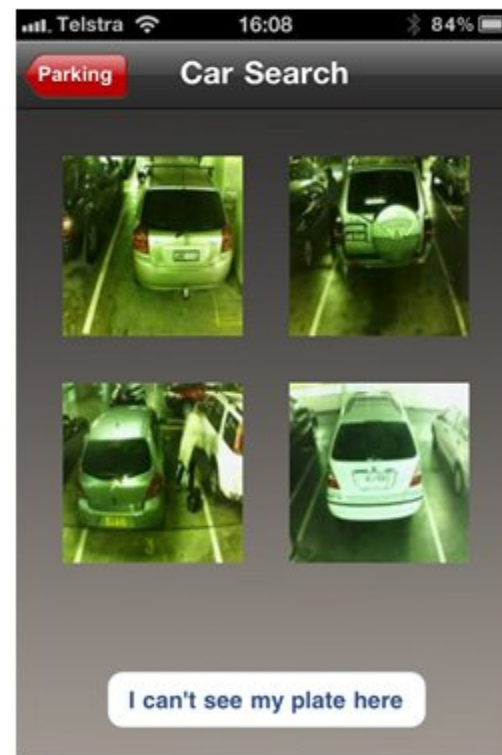
SAVE

**WESTFIELD** has temporarily pulled **Find My Car** from its iPhone app after a security analyst showed he could monitor all cars parked in its Bondi Junction shopping centre.

The retail giant's action follows [a blog by software architect Troy Hunt](#) who found URLs containing the number plates of all cars at Westfield's Bondi Junction centre were publicly accessible – no hacking was required.

The app lets a shopper enter their number plate and, after choosing a photo of their car from four displayed vehicles, seeks to guide the shopper back to their parking bay.

Sydney-based Hunt was able to develop software that could inform him of when all cars arrived and left the shopping centre, and exactly where they were parked.



Westfield's Find My Car feature made parking data publicly available. *Source: Supplied*