

3/22/10

Security Level:

# PKI Proxy Service

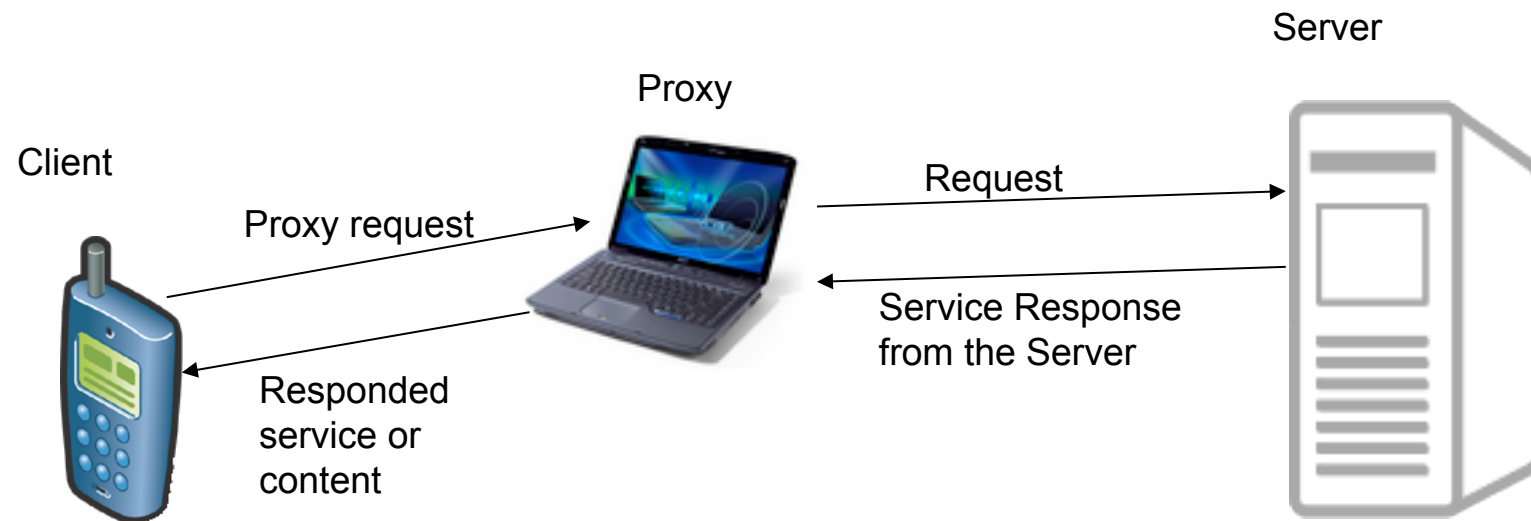
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# Scenario

- Not for the scenario only with Server and Client;
- This doc is towards three entities or a relay service chain;



**The client does not connect with Server directly for getting the service but via the Proxy.**

# Security requirement

- **The Client should trust the Proxy;**
- **The Proxy can only take the proxy operations within the Client's specific authorizations;**
- **The Server should authenticate the service request from the Proxy for the client.**
- **The authorization is public for all the involved entities.**



# Solutions

- **The Proxy should hold the authorization document while applying for service for the client with the Server.**
- **The server should verify whether the current request is legal and within the authorization scope.**



# Discussions

- **Is this service architecture very general**
  - “Proxy” is a very popular and widely implemented in many services.
  - The three-entities architecture is concise enough to embody the general proxy service architecture.
- **Related to PKI**
  - For security solutions, the PKI is appropriate for the public trust requirements.
- **May the concept of “authorization” and the associated solution model be reasonably fixed via standard**
  - If the three-entities architecture is very general, it deserves and can be extended by the concrete applications.



# Thank you!

- **Comments and discussions, welcome!**

