Windows Native Wifi APIs

CS615A - Presentation
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Introduction

• What is the purpose of Native Wifi APIs?
  – Configure Windows wireless NIC (Network Interface Card)
  – Connection, Disconnection, Management of wireless network profiles.
Introduction

• Mechanism

Native Wifi APIs

NIC
• Mechanism

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Introduction

- Mechanism

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List of Native Wifi APIs
## List of Native Wifi APIs

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Describe the Native Wifi APIs

• Initialization
  – Using **WlanOpenHandle** to opens a connection to the WLAN service.
  – Enumerate and get information of wireless interfaces by using **WlanEnumInterfaces**.
Describe the Native Wifi APIs

- Scanning
  - Scan for available wireless networks by using `WlanScan`.
  - To list all wireless APs information by using `WlanGetNetworkBssList`.
Describe the Native Wifi APIs

• Connection / Disconnection
  – Use *WlanConnect* to connect a wireless network and use *WlanDisconnect* to disconnect from a wireless network.
Describe the Native Wifi APIs

• Wlan Profile management
  – Get, save, or delete a profile by using following APIs. \texttt{WlanGetProfile}, \texttt{WlanSetProfile}, and \texttt{WlanDeleteProfile}. 
Describe the Native Wifi APIs

• Demonstration
Reference

Thank You