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import network
import time

def connect_to_wpa_enterprise(ssid, username, password):
    """
    Connect the ESP32 to a WPA/WPA2 Enterprise WiFi network.
    Args:
        ssid (str): The SSID of the WiFi network.
        username (str): The enterprise username.
        password (str): The enterprise password.
    """
    wlan = network.WLAN(network.STA_IF) # Set up station mode
    wlan.active(True)

    # Configure WPA Enterprise settings
    wlan.config(pm=0xa11140) # Power management mode for improved stability
    wlan.config(eap=network.EAP_PEAP, username=username, password=password)
    # Set EAP method and credentials

    # Connect to the specified SSID
    print(f"Connecting to network: {ssid}...")
    wlan.connect(ssid)

    # Wait for connection
    start_time = time.time()
    while not wlan.isconnected():
        print("Connecting...")
        time.sleep(1)
        if time.time() - start_time > 15: # Timeout after 15 seconds
            print("Failed to connect: Timeout")
            return False

    # Connection established
    print("Connected to network")
    print("Network Config:", wlan.ifconfig())
    return True

# Replace these with your WPA/WPA2 Enterprise credentials
SSID = "YourEnterpriseSSID"
USERNAME = "YourUsername"
PASSWORD = "YourPassword"

# Main program
try:
    connected = connect_to_wpa_enterprise(SSID, USERNAME, PASSWORD)
    if connected:
        print("Successfully connected to the WiFi network!")
    else:
        print("Failed to connect to the WiFi network.")
except Exception as e:
    print("An error occurred:", e)

```