

Method 1:

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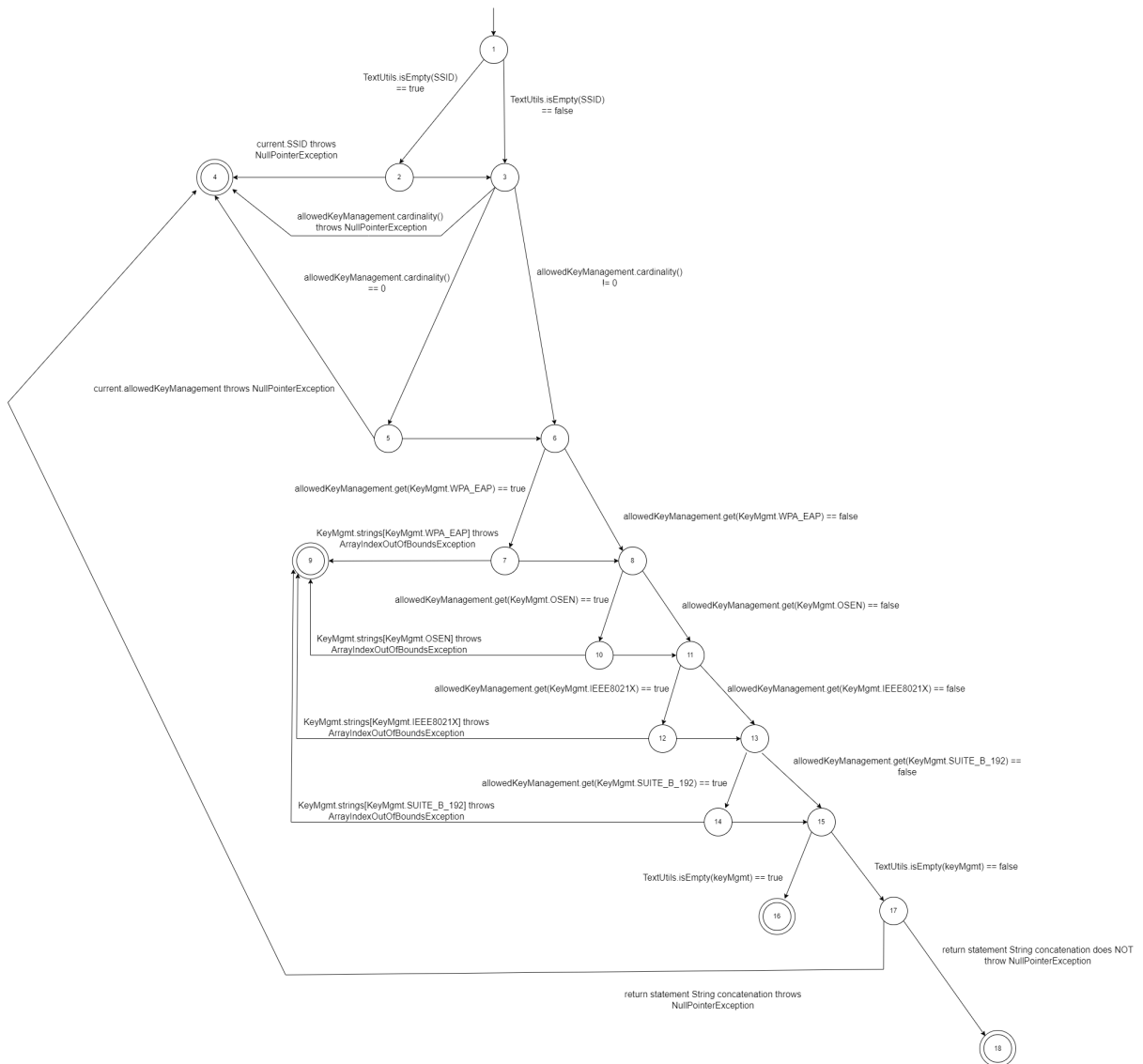
```
public String getKeyIdForCredentials(WifiConfiguration current) {
    String keyMgmt = "";

    try {
        // Get current config details for fields that are not initialized
        if (TextUtils.isEmpty(SSID)) SSID = current.SSID;
        if (allowedKeyManagement.cardinality() == 0) {
            allowedKeyManagement = current.allowedKeyManagement;
        }
        if (allowedKeyManagement.get(KeyMgmt.WPA_EAP)) {
            keyMgmt += KeyMgmt.strings[KeyMgmt.WPA_EAP];
        }
        if (allowedKeyManagement.get(KeyMgmt.OSEN)) {
            keyMgmt += KeyMgmt.strings[KeyMgmt.OSEN];
        }
        if (allowedKeyManagement.get(KeyMgmt.IEEE8021X)) {
            keyMgmt += KeyMgmt.strings[KeyMgmt.IEEE8021X];
        }
        if (allowedKeyManagement.get(KeyMgmt.SUITE_B_192)) {
            keyMgmt += KeyMgmt.strings[KeyMgmt.SUITE_B_192];
        }

        if (TextUtils.isEmpty(keyMgmt)) {
            throw new IllegalStateException("Not an EAP network");
        }

        return trimStringForKeyId(SSID) + "_" + keyMgmt + "_" +
            trimStringForKeyId(enterpriseConfig.getKeyId(current != null ?
                current.enterpriseConfig : null));
    } catch (NullPointerException e) {
        throw new IllegalStateException("Invalid config details");
    }
}
```

Graph:

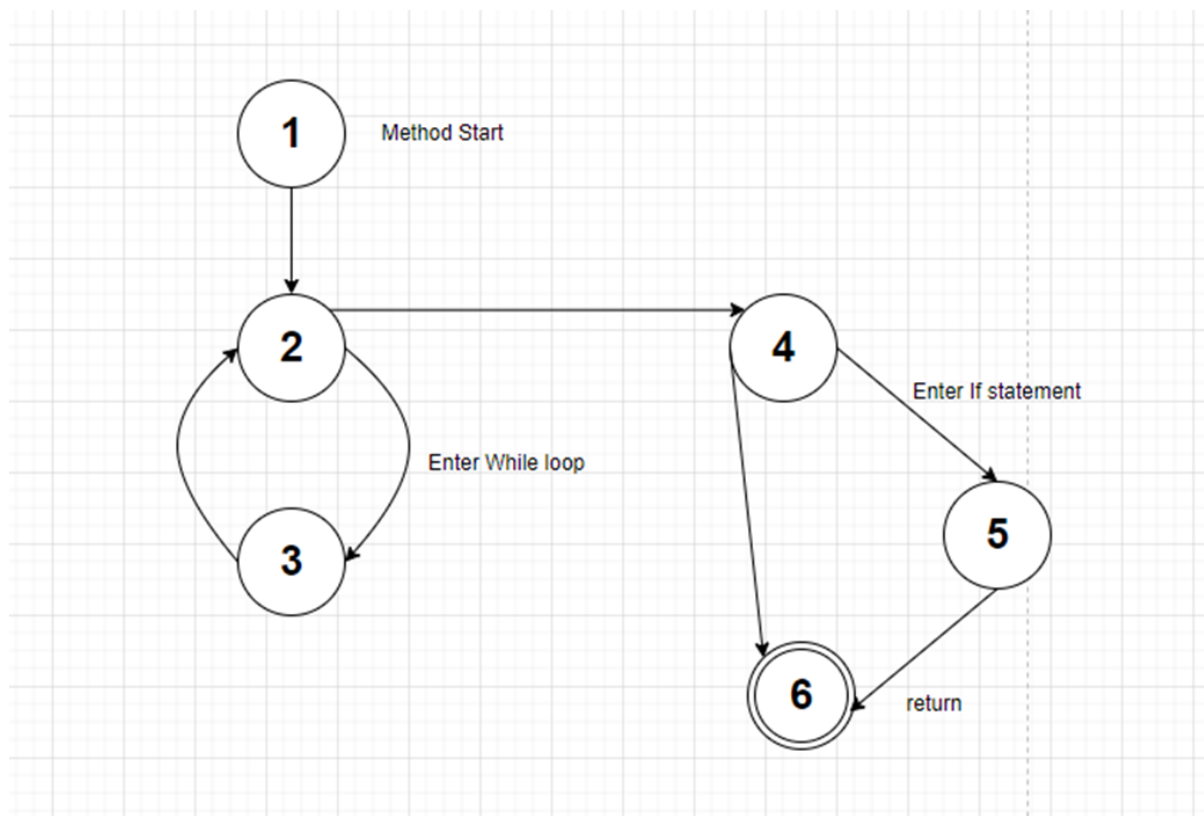


getOrCreateRandomizedMacAddress() source code

```
/**
 * @hide
 * Returns Randomized MAC address to use with the network.
 * If it is not set/valid, creates a new randomized address.
 * If it can't generate a valid mac, returns the default MAC.
 */
public @NonNull MacAddress getOrCreateRandomizedMacAddress() {
    int randomMacGenerationCount = 0;
    while (!isValidMacAddressForRandomization(mRandomizedMacAddress)
        && randomMacGenerationCount < MAXIMUM_RANDOM_MAC_GENERATION_RETRY) {
        mRandomizedMacAddress = MacAddress.createRandomUnicastAddress();
        randomMacGenerationCount++;
    }

    if (!isValidMacAddressForRandomization(mRandomizedMacAddress)) {
        mRandomizedMacAddress = MacAddress.fromString(WifiInfo.DEFAULT_MAC_ADDRESS);
    }
    return mRandomizedMacAddress;
}
```

Graph of method



Prime Paths

1,2,3

2,3,2

3,2,3

1,2,4,6

1,2,4,5,6

3,2,4,6

3,2,4,5,6

Prime path coverage

1,2,4,6

1,2,4,5,6

1,2,3,2,4,6

Base Choice Coverage

Characteristics

1. mRandomizedMacAddress is null
 - a. True
 - b. False
2. mRandomizedMacAddress is valid
 - a. True
 - b. False
3. mRandomizedMacAddress is invalid and not null
 - a. True
 - b. False
4. MAXIMUM_RANDOM_MAC_GENERATION_RETRY < 0
 - a. True

b. False

5.