

Craig Hyps, SAMPG TME March 2013

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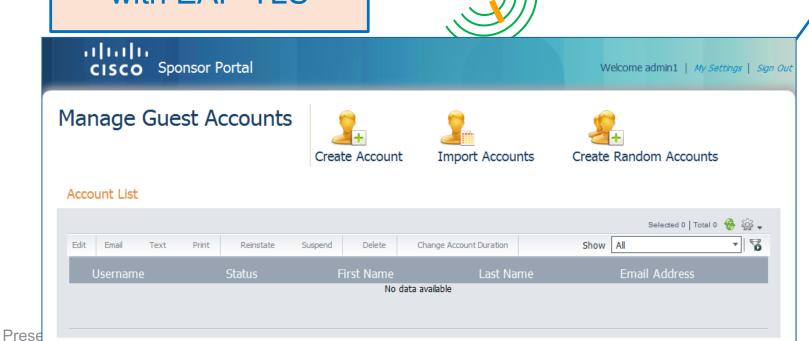
What Is It?

 Sponsored BYOD allows an administrator or other authorized employee to generate temporary credentials on behalf of another employee. These short-term credentials permit the select employee to register their personal device and optionally configure the native supplicant and provision certificates to that personal device for secure access to the corporate network using 802.1X.

Process Flow

One-time redirect of the employee web session to ISE portal for auth and device onboarding

Secure SSID « BYOD-8021X » with EAP-TLS



ISE

Policy Server

WLC O

Employee auth using cert with 802.1X; access granted to corporate resources.

Sponsor generates temp credentials for employee

Username:

employee@company.com

Password:

Sign On

Change Password

Don't have an account?

Challenges and Solution

Current ISE limitations:

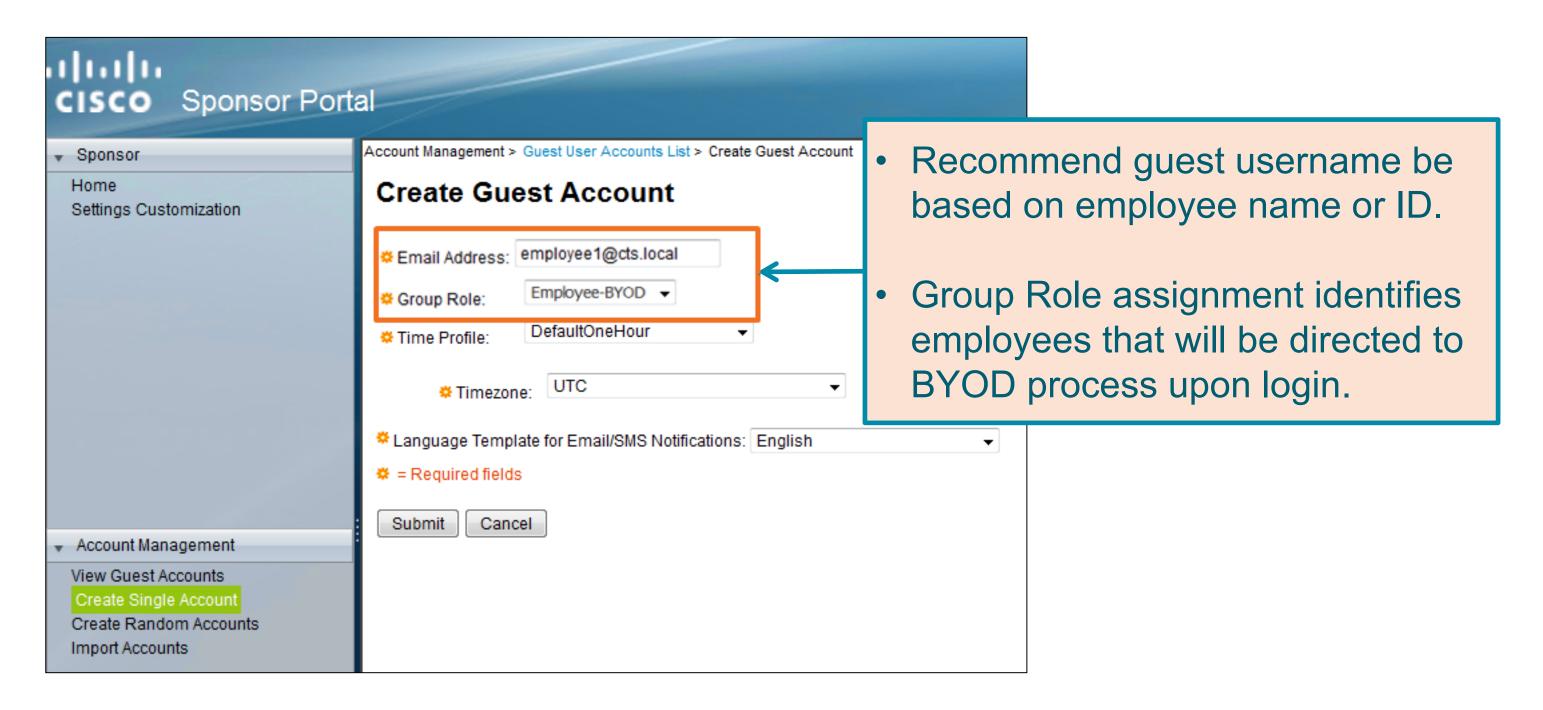
- Sponsor portal is intended to generate guest accounts only.
- ISE Device Registration and Native Supplicant Provisioning is intended for employees or other non-guest accounts.
- Default ISE policy bypasses Device Registration and NSP for all guest users.

Solution:

- Manager uses ISE sponsor portal to create a guest account for an employee
- Guest username policy is set to match employee user ID, example email address.
- Manager assigns "guest" account to specific ID group, example "EmployeeNSP"
- New Authorization Policy rule matches ID group and applies NSP authorization.

Sponsored BYOD Configuration

Sponsor Creates Temporary Employee Credentials

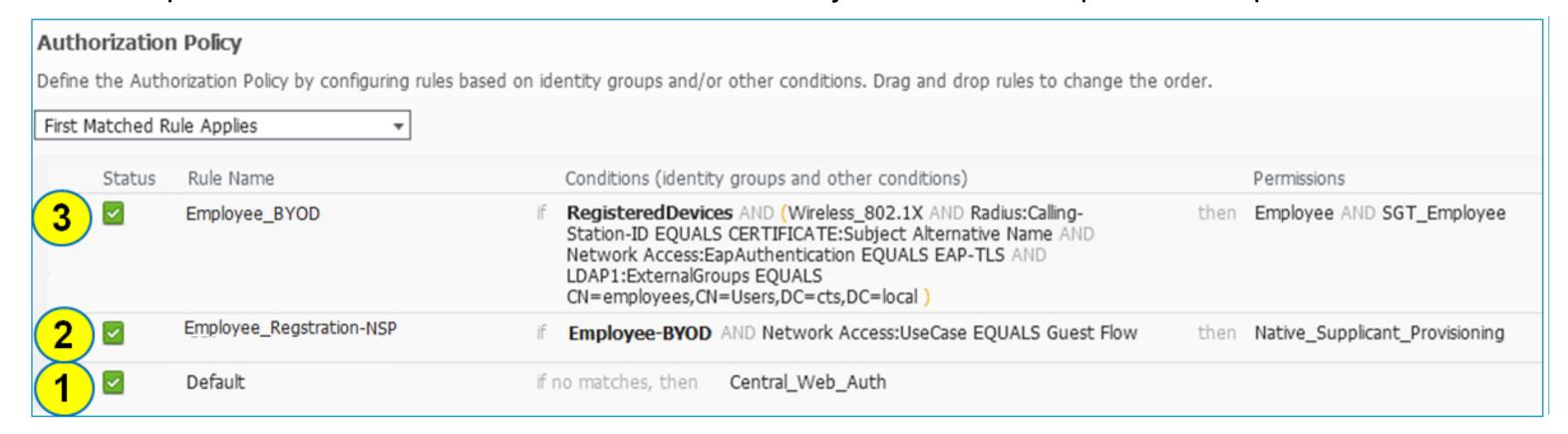


Sponsored BYOD Configuration

Authorization Policy

Presentation ID

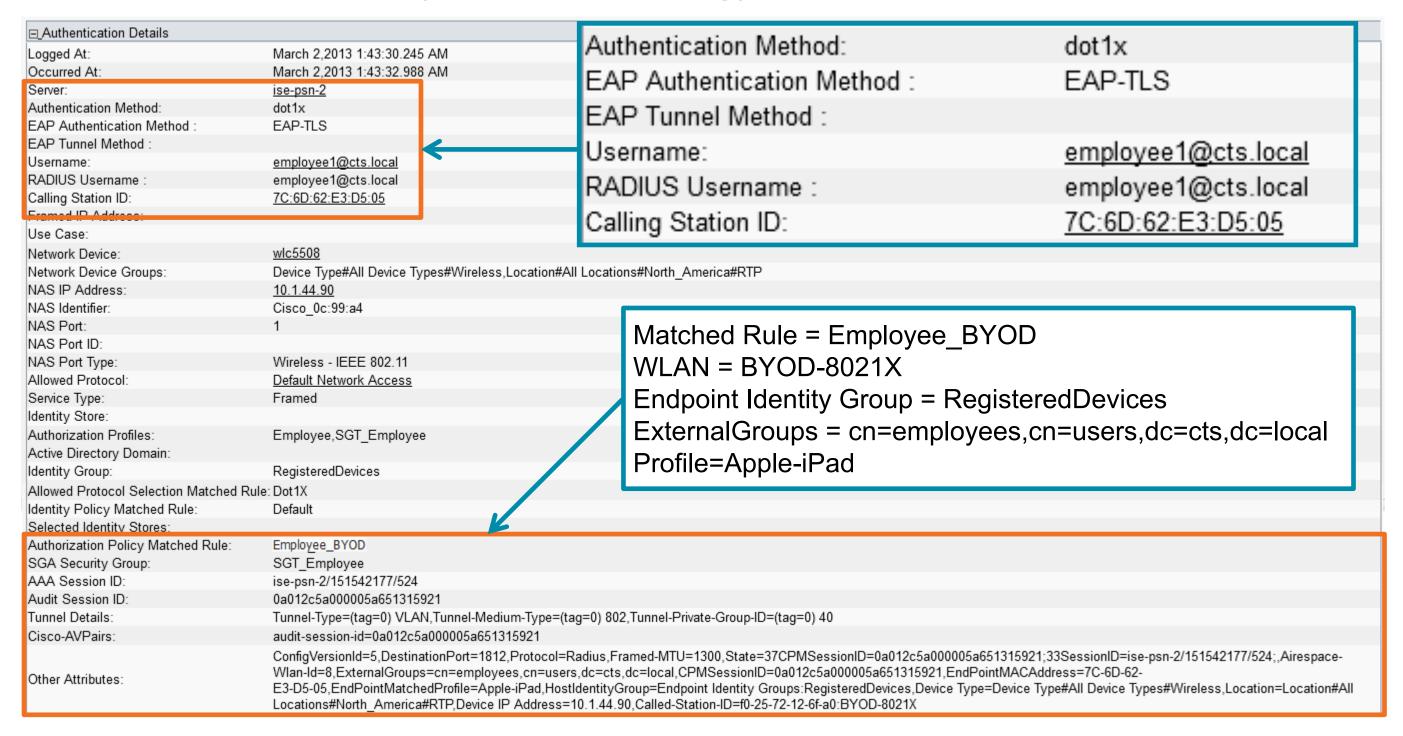
- 1. Sponsored employee logs in first time via CWA (Default rule) using "guest" credentials.
- 2. CoA re-auth sent upon successful web authentication; employee now hits NSP rule based on matching ID group and Guest Flow conditions.
- 3. When NSP completes, user reconnects on secure WLAN using EAP-TLS with newly provisioned certificate. Optional matching of client MAC (Calling-Station-ID) to certificate SAN and AD/LDAP lookups based on user name found in certificate Subject—inserted as part of NSP process.



Cisco Public

Sponsored BYOD Configuration

Authorization Details (Post Provisioning)



Demonstration VoD

• 11-minute VoD demonstrates the entire process of creating a guest account, the user provisioning experience, as well as review of the authentication logs and Authorization Policy rules:

https://cisco.webex.com/ciscosales/lsr.php?RCID=8990f752b80f41ae29e2adb0f5f98ca1

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