

## Cisco Identity Services Engine (ISE)

**Mobility Roadshow** 

Jaroslav Čížek, Cisco November 2016

## Introducing Cisco Identity Services Engine

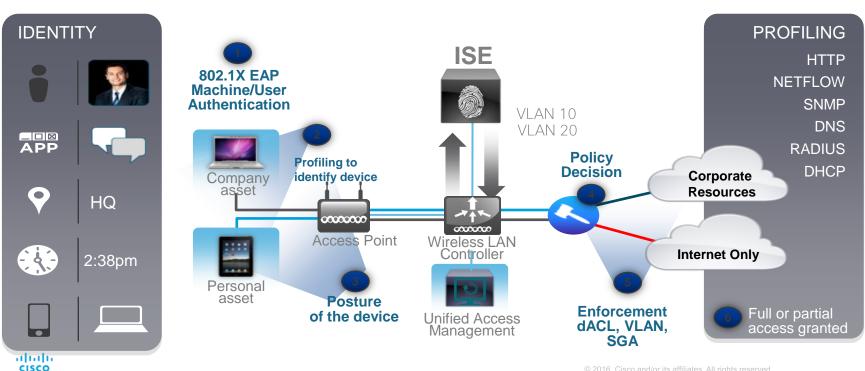
A centralized security solution that automates context-aware access to network resources and shares contextual data



- ISE Portal Builder build your own guest portals here https://isepb.cisco.com
- ISE Guest Setup Wizard App Configure ISE and WLC at the same time. Cisco and/or its affiliates. All rights reserved.
- ISE Express Bundle Cisco ISE in an entry-level bundle offered at an aggressive discount

#### Client Context and Policies

#### Control and Enforcement



## Rich Data Sharing Enhances Protection Across the Attack Continuum



- Gain visibility into who and what is on your network
- Grant access on a "need to know" basis

- Provide threat context to network behavioral analysis
- Contain through network elements and security ecosystem
- Get better forensics and prepare for the next attack by sharing information with ecosystem partners

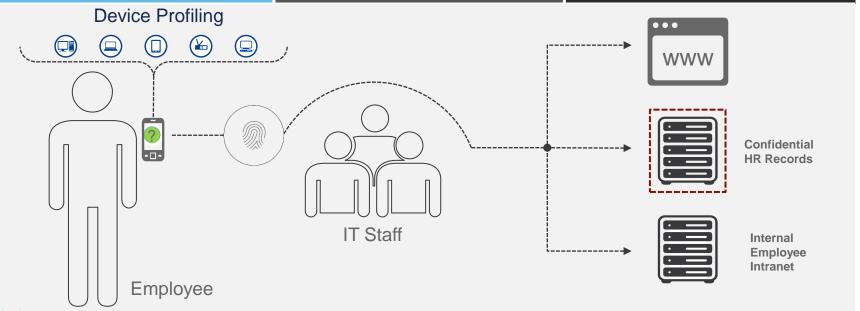


Enable Faster and Easier Device Onboarding without Any IT Support

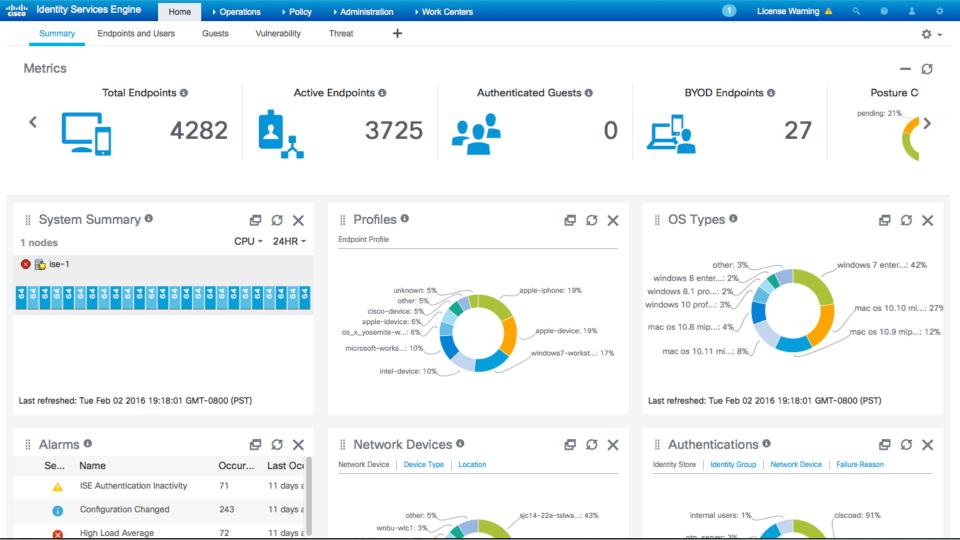
Rapid device identification with out-of-the-box profiles

Simplified device management from self-service portal

Automated authentication and access to business assets







#### ISE use cases

#### Features included by license type

		reactives included by license type												
		Base Perpetual				Device Admin* Perpetual	<b>Plus</b> Term (1,3,5 year)					ISE Apex + AnyConnect Apex Term (1,3,5 year)		
Benefit	Use case	RADIUS / 802.1x	AAA	TrustSec security group tagging	Guest services	TACACS+	Rapid threat containment	ANC/EPS	Device profiling and feed service	BYOD with CA	pxGrid context sharing	MDM / EMM	Threat- Centric NAC	Posture (endpoint compliance and remediation)
Control all access from one place	Guest Provide unique guest permissions to visitors	•	•		•									
	Secure access Control user access and ensure device authentication	•	•	•										
	Device Admin Differentiate access for device administrators					•								
	BYOD Seamlessly onboard devices with the right access	•	•	•					•	•				
See and share rich user and device details	Visibility See when, where, and why users are on your network	•	•	•					•					
	Integration Share information with other products	•	•	•					•		•			
<b>#</b>	Compliance Ensure that endpoints meet network standards	•	•	•								•		•
Stop threats from getting in and spreading	Segmentation Limit exposure with pre-defined access segmentation	•	•	•										
	Containment Reduce risk with rapid threat containment	•	•	•			•	•	•					
	Prevention Prevent breaches at the endpoint level	•	•	•					© 2016 Cisc	o and/or its affi	liates. All rights	reserved.	•	7

#### What's New in 2.1?

- EasyConnect
- Context Visibility
   Customizable Dashboard
   Expanded Profiling Capabilities
- Threat Centric NAC
- TrustSec Workflow Enhancements
- TrustSec / ACI Policy Plane Integration

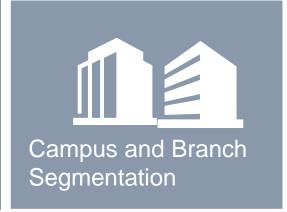
- (Much!) Expanded 3<sup>rd</sup> Party Support
- Major ACS Parity Features
- Compliance & MDM Enhancements
- BYOD Stand-Up Enhancements
- Guest Enhancements
- New Hardware == New Performance



#### Wireless TrustSec Support



- Context--based access control
- Compliance requirements PCI, HIPAA, export controlled information
- Merger & acquisition integration, divestments



- Line of business segregation
- PCI, HIPAA and other compliance regulations
- Malware propagation control/quarantine

Feature	Platform
Inline SGT tagging and SG-ACL enforcement	17xx, 27xx,37xx, 18xx, 28xx, 1560 and 38xx 5520 and 8540
SXPv2	5520, 8540, 8510, 7510, vWLC, 5508, WISM2, 2504
SXPv4	17xx, 27xx,37xx, 18xx, 28xx, 1560 and 38xx

Simple scalable software-defined-access based segmentation and policies



## The Segmentation Challenge



8 Employees

Contractors

Nendors

VLANs

Guests

PCI Devices

Extend segments over - Layer 3 boundaries

#### Complex IP based policies Need updates as topology changes







Various Segmentation needs



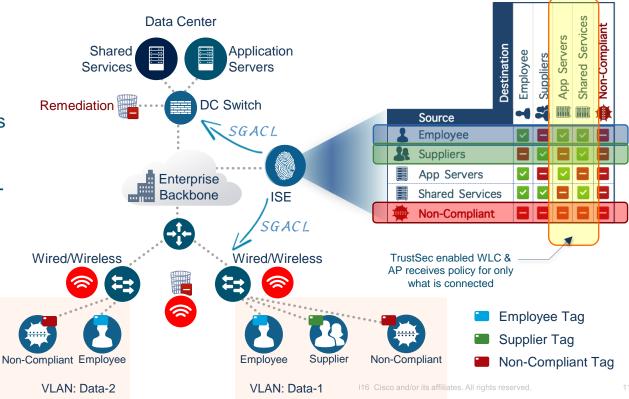


Retain Security & Compliance as network expand and grow

## Simplified and Consistent Access governed by TrustSec

Regardless of topology or location, policy (Security Group Tag) stays with users, devices, and servers

TrustSec simplifies ACL management for intra/inter-**VLAN** traffic





#### Cisco DNA and ISE

#### Network Controller





Discover Network Asset & Services



**Check Network Service Readiness** 



Provision & Manage Configuration



Enable additional services instantly



Provision Network Service Changes



Identify User and Endpoints

ISE



Profile and Classify devices



Automate On-Boarding



Automated Security Policy Provisioning Inside/outside fabric



Sync groups with security apps and other controllers

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