



# Leveraging SSO with Ellucian CRM using Ellucian Ethos Identity



# Introduction

**Ellucian CRM applications can be included in an enterprise-wide SSO infrastructure**

**Doing so requires an understanding of the CRM authentication architecture and supported authentication options**

**Ellucian Ethos Identity is one option available to all CRM suite customers**

# Topics

- 1 Understanding Authentication

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- 2 Authentication Options in Ellucian CRM

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- 3 Ellucian Ethos Identity

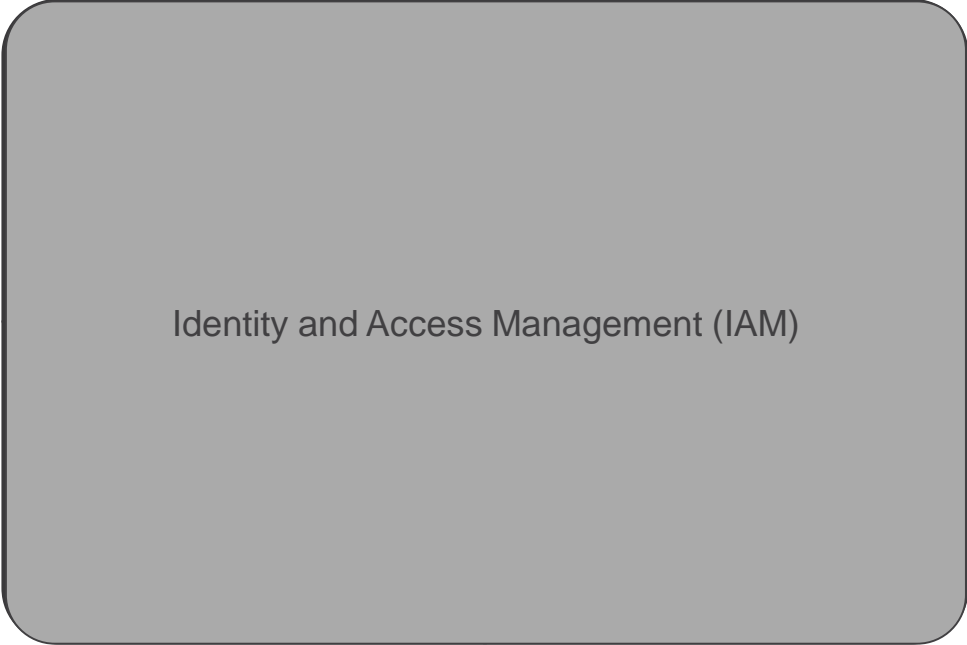
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- 4 Caveats/Considerations

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- 5 Summary and Questions

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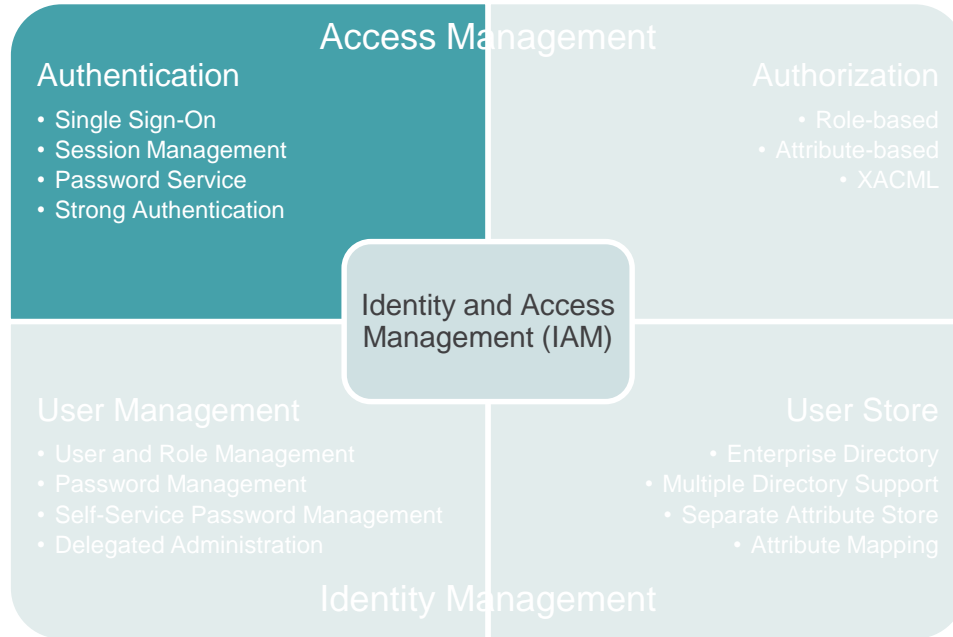
# Understanding Authentication

# Identity and Access Management

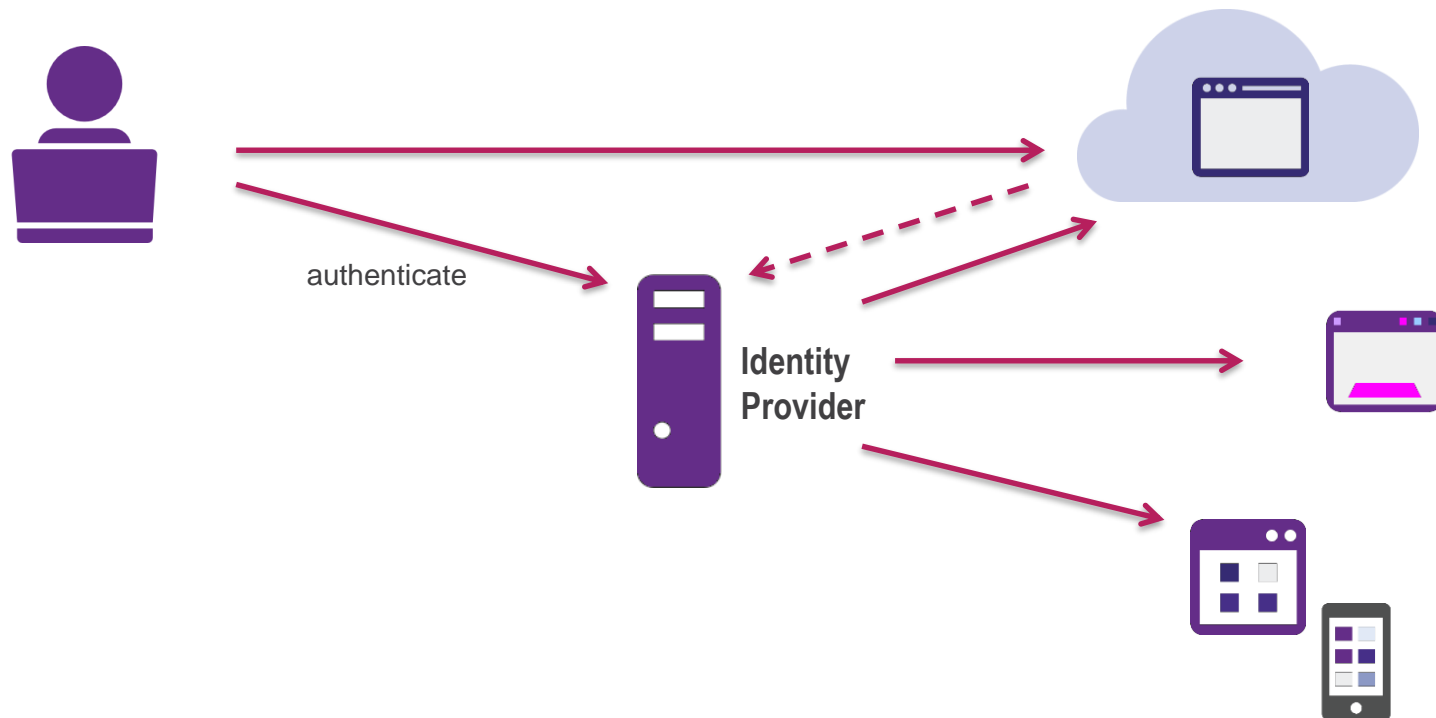


Identity and Access Management (IAM)

# Identity and Access Management – Authentication



# Generalized Authentication Flow



# Authentication Implementation

## Variety of protocols

- SSO Protocols from/for Higher Education
  - CAS (formerly JASIG, now apereo)
  - CoSign (University of Michigan)
  - Kerberos (MIT)
  - Pubcookie (University of Washington)
- SAML 2.0 = SSO for enterprise apps such as Salesforce, Bb, Moodle, etc.
- WS-Federation/WS-Trust = SSO for Microsoft apps such as CRM, SharePoint, Office365, etc.
- OAuth 2.0 = API security such as Facebook, Amazon, LinkedIn, Box, etc.
- OpenID Connect = identity layer on top of OAuth 2.0



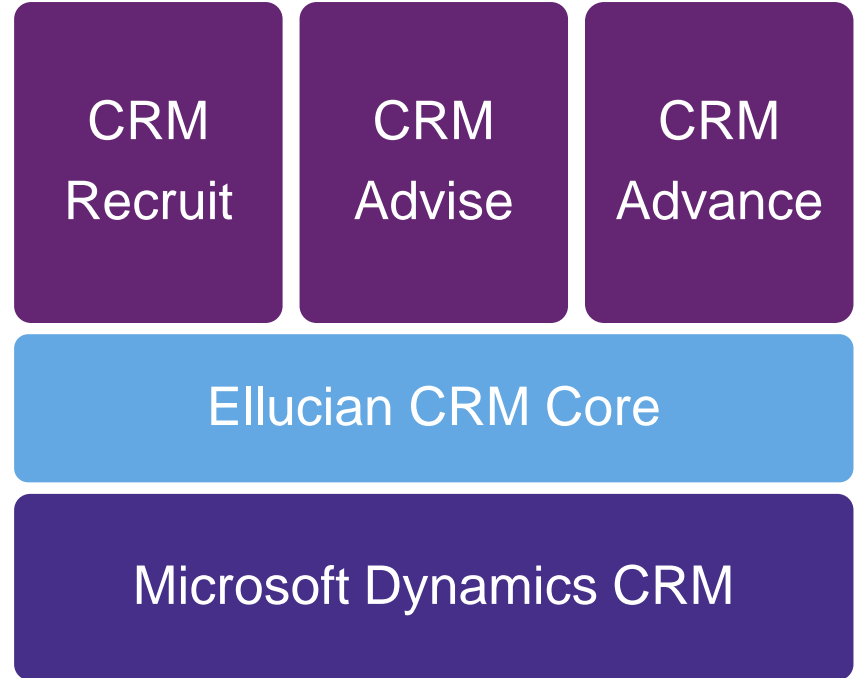
# Authentication in Ellucian CRM Suite

# Ellucian CRM

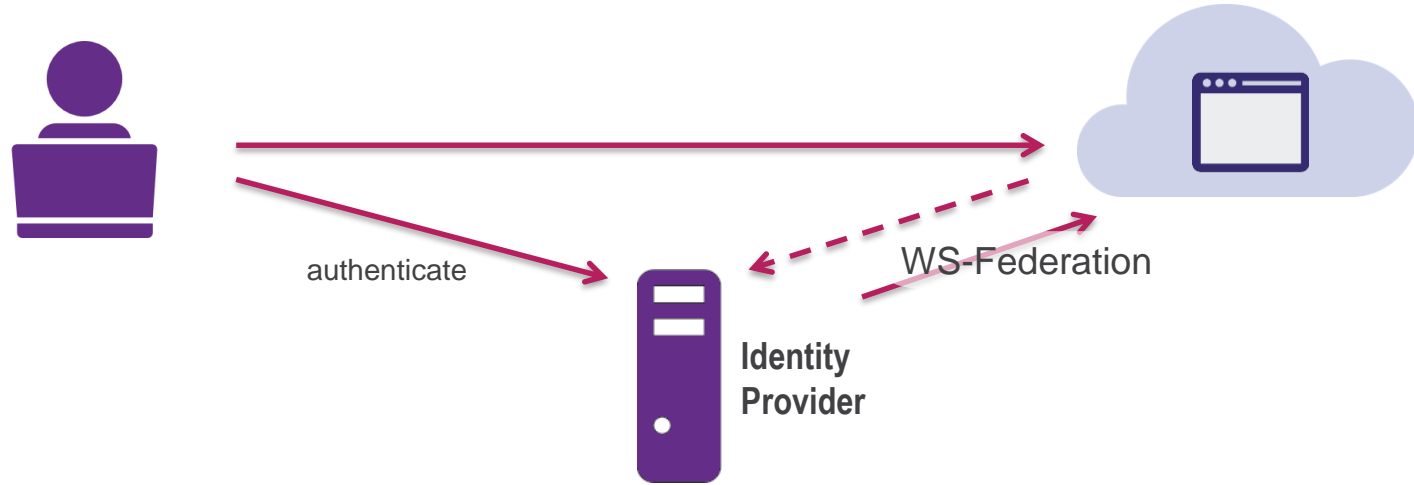
## Dynamics CRM-based

### Supported protocols:

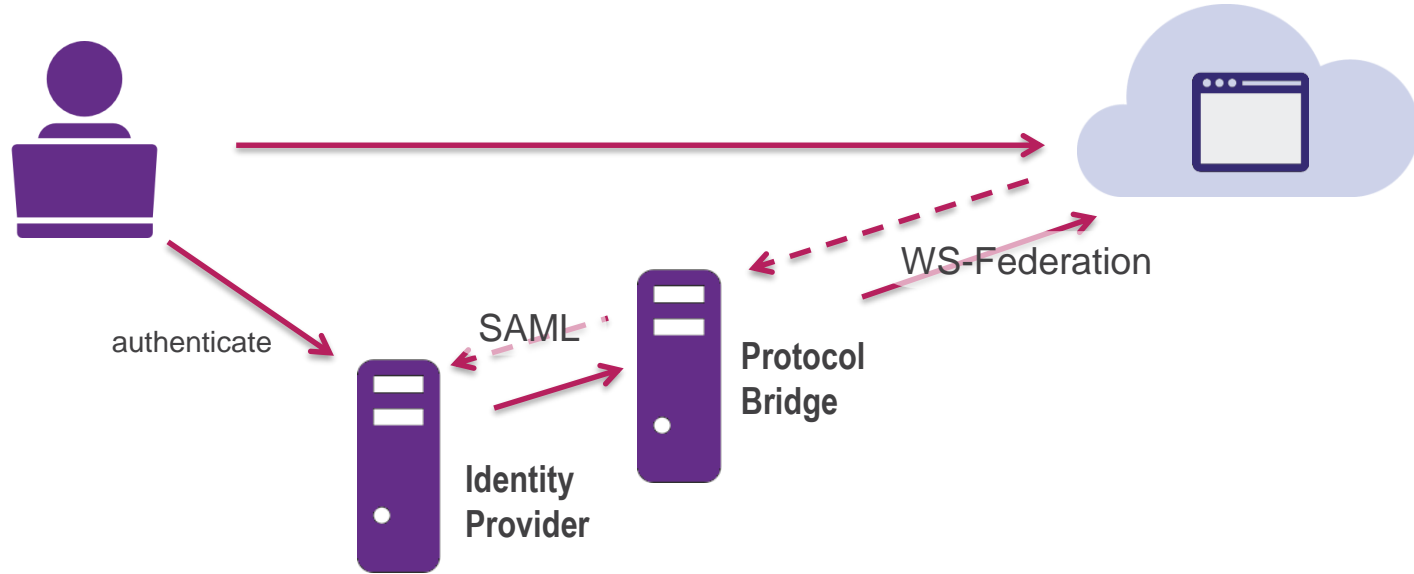
- WS-Federation
  - aka passive-STS
  - Browser-based applications
- WS-Trust
  - aka active-STS
  - Non-browser applications (e.g., Outlook connector)



# Identity Provider supporting WS-Federation



# Protocol bridge supporting WS-Federation



# Supported Options

## Active Directory Federation Services (AD FS)

- developed by Microsoft
- can be installed on Windows Server operating systems
- provides users with single sign-on access to systems and applications
- claims-based access control authorization model

## Ellucian Ethos Identity

- Ellucian-branded version of WSO2 Identity Server
- Multi-platform Java application with embedded Tomcat server
- Supports multiple SSO protocols
- Primary IdP or protocol bridge

# Ellucian Ethos Identity

# What It's Not

**Don't call it “EIS” or “Ellucian Identity Services”**

**A cloud-based SSO or Identity as a Service (IDaaS) solution**

**An identity/user-account provisioning agent**

**An identity governance solution**

# Ethos Identity Composition

## Ellucian Ethos Identity

### Ellucian Extensions

- CAS protocol support
- Attribute store support

### WSO2 Identity Server

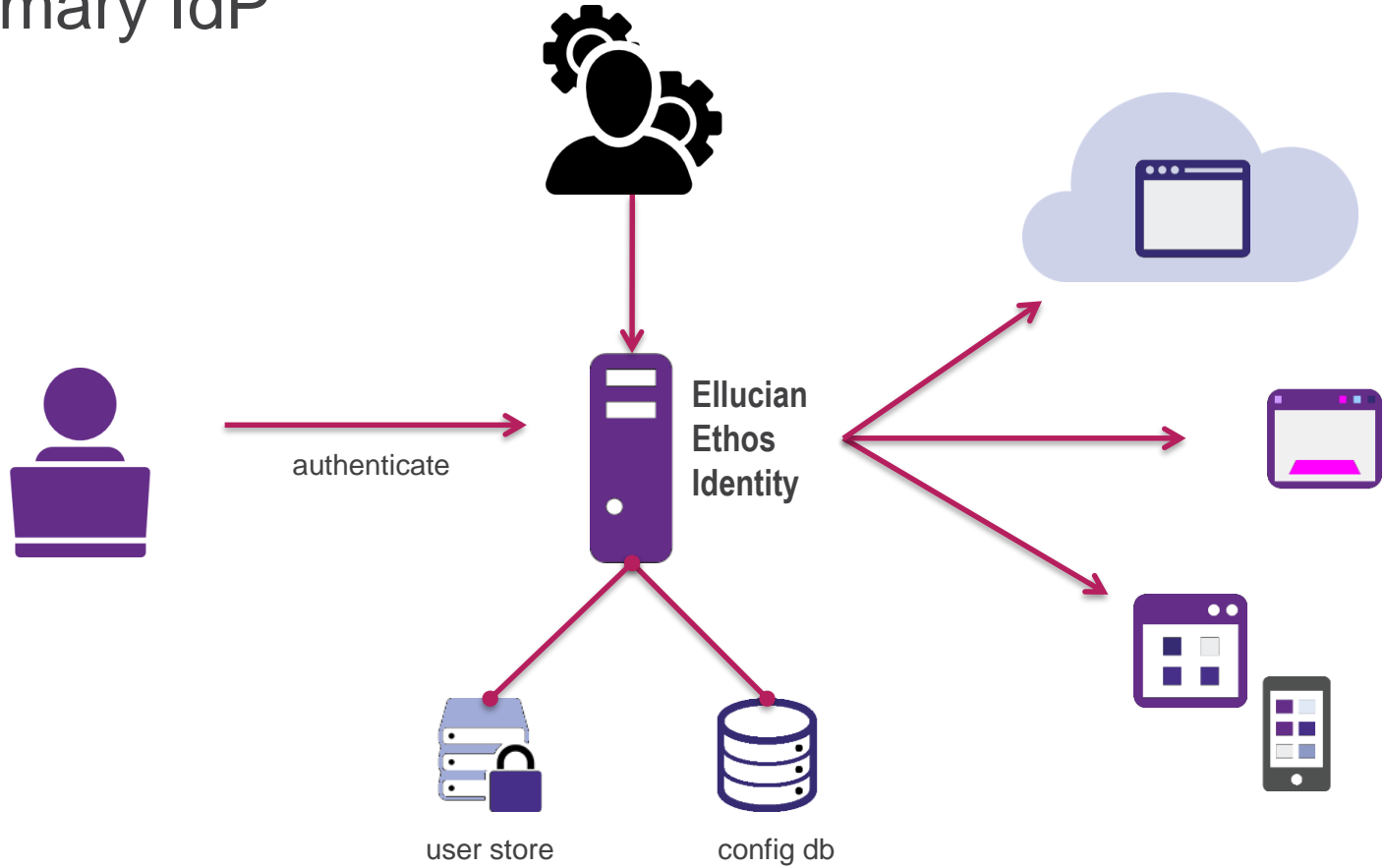
- Administrator Console
- Login pages
- End User Dashboard
- Multi-protocol support
- User store support
- User and Groups Management

### Ellucian Extras

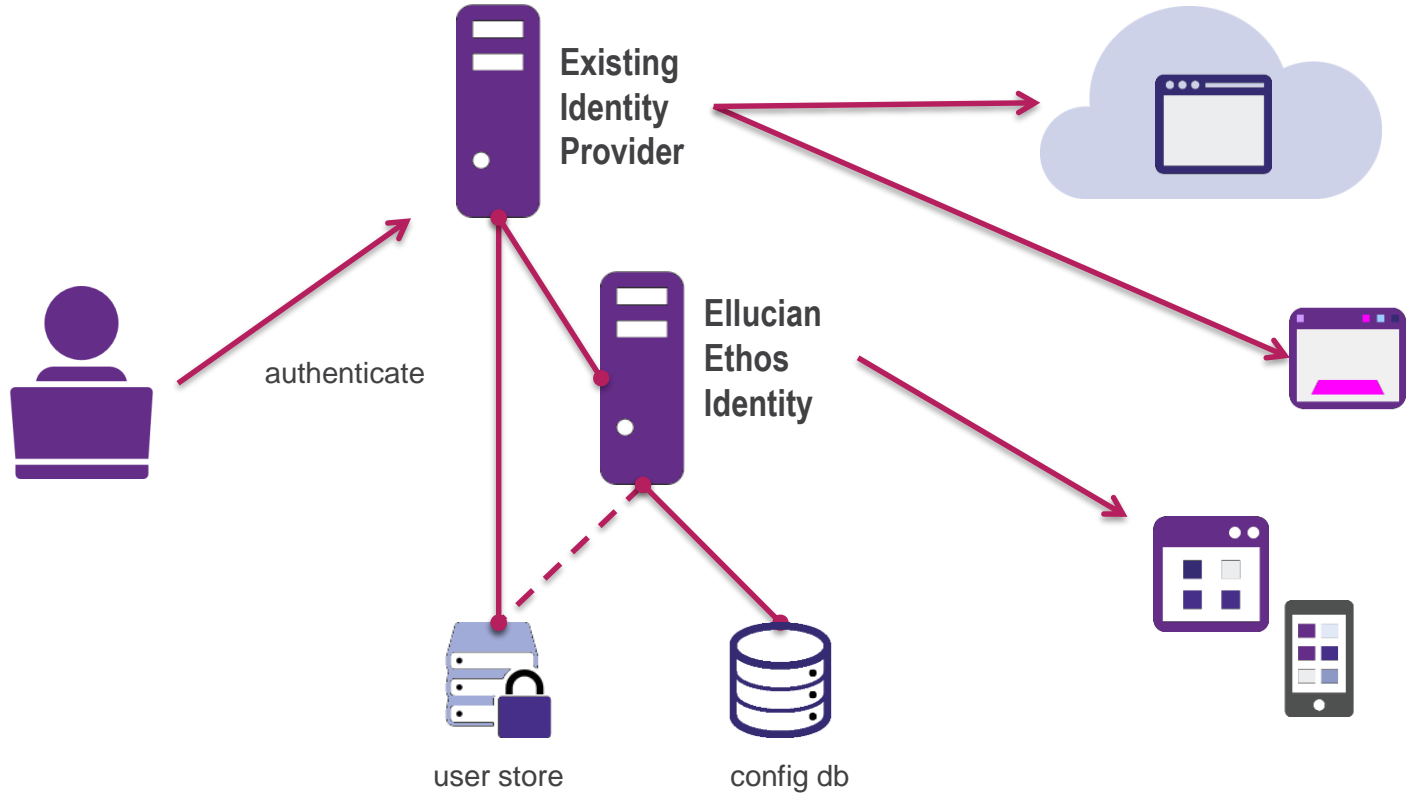
- Installer
- Configuration Utility
- Migration Utility
- WSO2 Liaison
  - Patches
  - Testing
  - Bug fixes



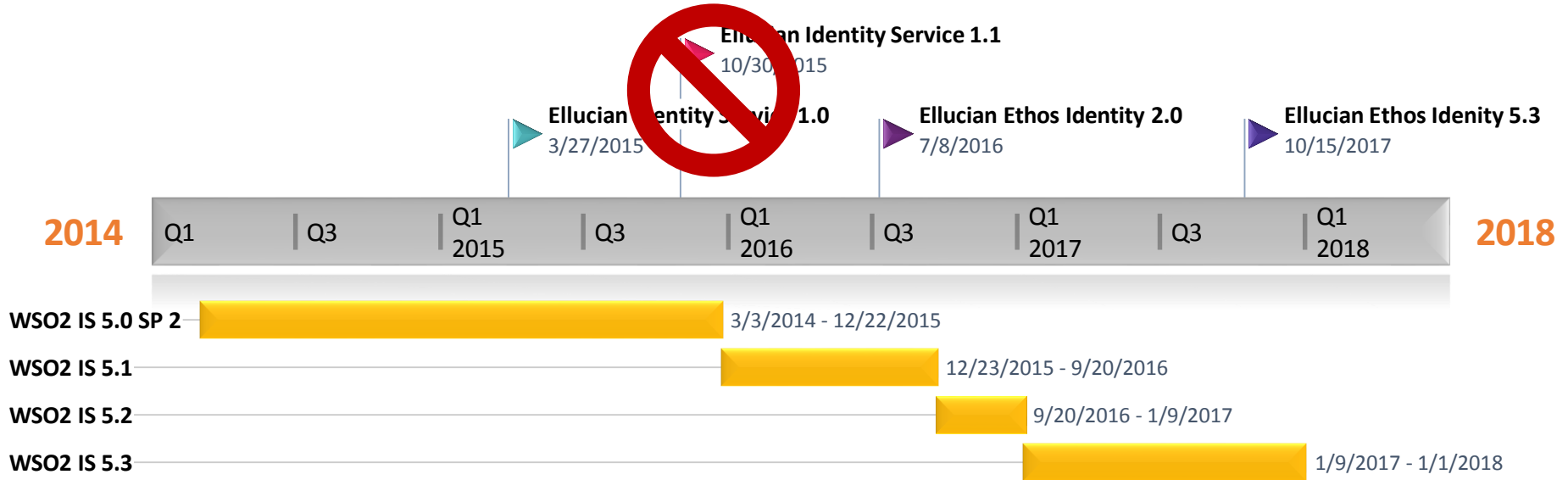
# As a Primary IdP



# As a Protocol Bridge



# Ethos Identity Release History



# Key Enhancements in Ellucian Ethos Identity 5.3.x

## Upgrade to WSO2 Identity Server 5.3

- Various security fixes and enhancements
- HTML support for email templates, template internationalization and dynamic properties for email templates
- Upload/Download of SAML Metadata
- SSO Protocols:
  - SAML2
  - CAS
  - WS-Trust
  - WS-Federation
- Enhanced Caching

## Additional Bug Fixes from WSO2

# Ellucian value-added features

Feature	In IS 5.3?	Part of Ellucian Extensions?
CAS protocol support	●	●
Change password	●	No
Reset password	●	No
Full Office 365 support	●	No
Dynamics CRM support	●	Patch from WSO2
Secondary attribute store	●	●
ANT configuration scripts	●	●
Migration from EEId 2.0.x to 5.3	●	●
End user page internationalization; Translations; RTL support	●	No
Clustering	●	Documentation

# End User Dashboard

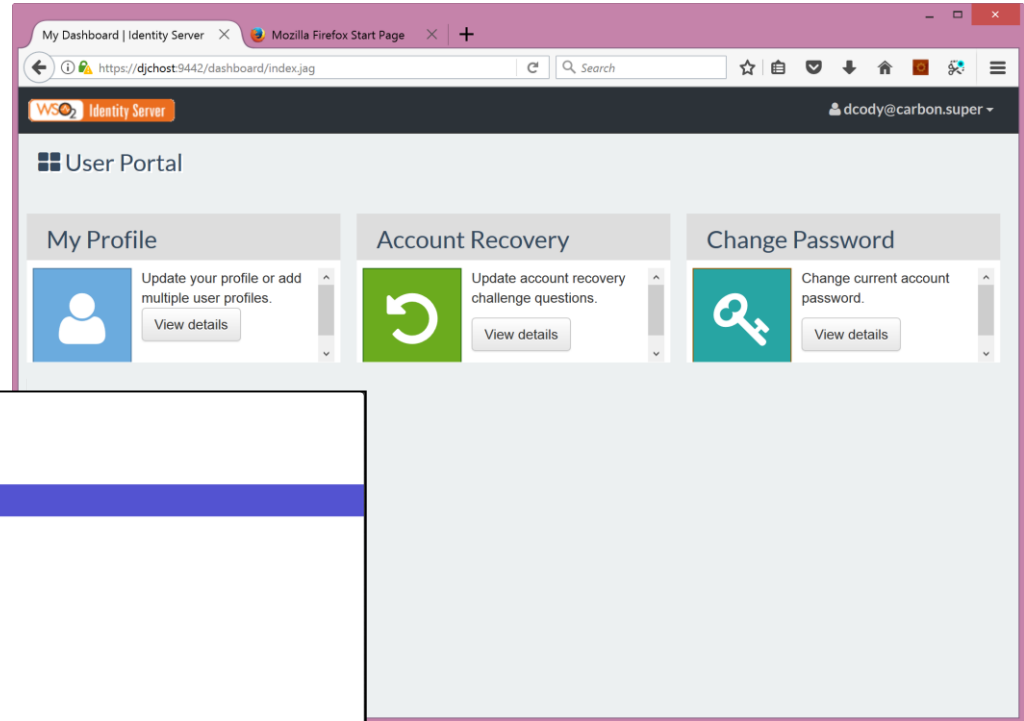


**Sign in to your account**

☐ Remember me on this computer

[Forgot Password](#)

[Forgot Username](#)



# Account Management Enhancements

## Account Recovery

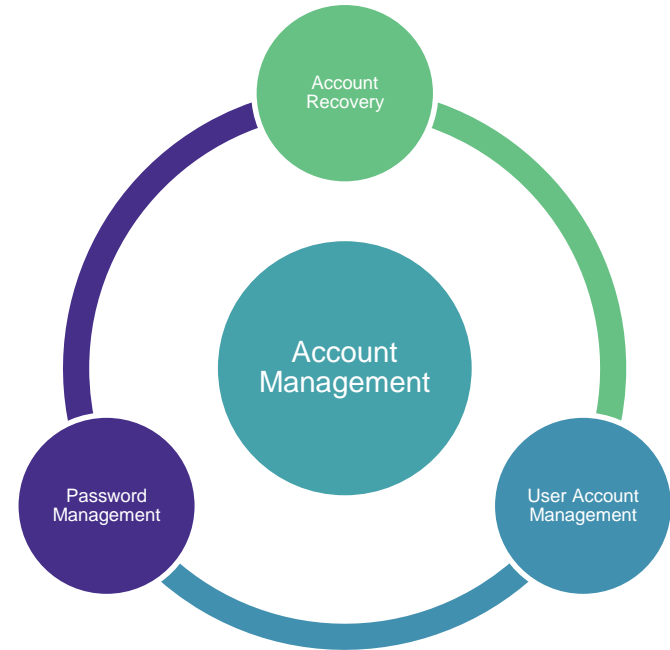
- Password Recovery
- Username Recovery

## Password Management

- User Initiated
- Admin Initiated (Forced password reset)
- Password History
- Password Complexity

## User Account Management

- User Account Locking
- User Account Disabling
- User Account Suspension



# Caveats/Considerations



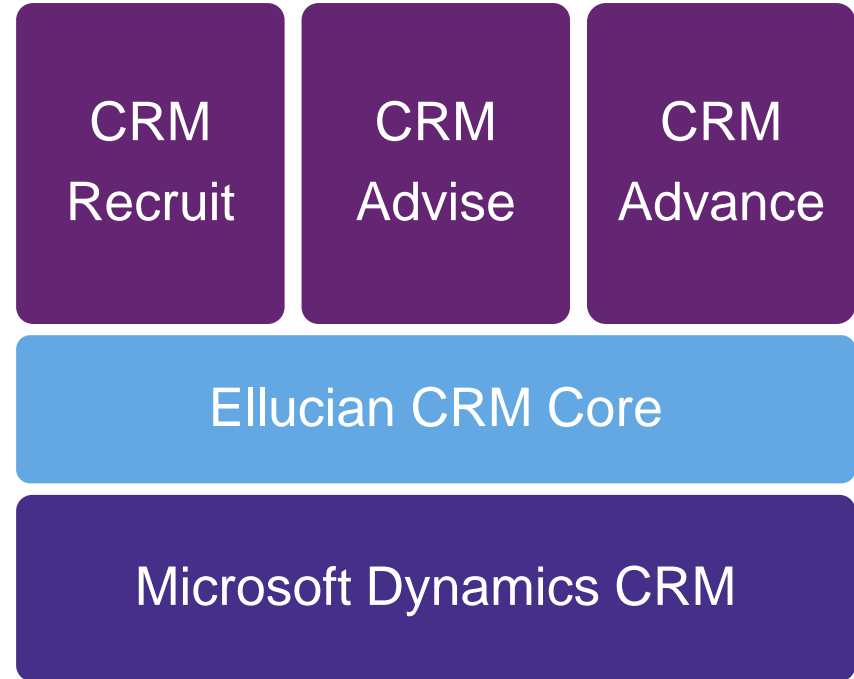
# Authentication in Ellucian CRM

## Important Distinctions

- Applications are not monolithic
- Include browser-based and non-browser-based components, requiring different SSO protocols
  - WS-Federation
  - WS-Trust

## Examples have been browser-based apps to this point

- Non-browser applications (e.g., Outlook connector) must be addressed



# Compatibility Matrix

	Browser-based CRM Console (admin user)	Regular portal non-CX based (Advise)	Outlook connector	SDK (CX sites, installer, other utilities)	CX sites using ADFS for constituent logins	Student or constituent logins to CX sites	Externally controlled authentication
Ethos Identity 2.x (non-federated)	Tested – works	Tested – works	Tested – works	Tested – works	Future development and testing	n/a	n/a
Ethos Identity 5.3 (non-federated)	Tested – works	Tested – works	Tested – broken, working to resolve	Tested – broken, working to resolve	Future development and testing	n/a	n/a
EEId with federated IdP (Shib, etc.)	Tested – works	Tested – works	Tested – does not work	Tested – does not work	Depends on federated IdP	n/a	n/a
AD FS	Tested – works	Tested – works	Tested – works	Tested – works	Future development and testing	n/a	n/a
AD FS federated with IdP (Shib, etc.)	Not tested	Not tested	Not tested	Not tested	Future development and testing	n/a	n/a
Azure AD Premium	Under testing	Under testing	Under testing	Under testing	Future development and testing	n/a	n/a

# Summary and Questions

# Summary

**Ellucian CRM applications support the WS-Federation and WS-Trust protocols**

**Including them in institution-wide SSO requires an IdP or protocol bridge that supports these protocols**

**Two supported options currently: AD FS and Ellucian Ethos Identity**

**Ethos Identity helps institutions establish or improve single sign-on across applications that support disparate protocols**

**Ethos Identity is available to all Ellucian customers as an entitlement**

**WSO2 Identity Server 5.3 is the core of Ellucian Ethos Identity, providing enhanced capabilities that institutions have requested**

# Resources

## Ellucian Customer Support Center

- Downloads, documentation, articles, global search
- <https://ellucian.okta.com/app/UserHome> > Support Center tile or Download Center tile
- <https://resources.elluciancloud.com/category/identity>

## eCommunities Identity and Access Management space

- Announcement, discussions, peer support
- <https://ecomunities.ellucian.com/community/identity-and-access-management>

## WSO2 Identity Server documentation

- Detailed feature documentation and configuration examples
- <https://docs.wso2.com/display/IS530/Introduction>

## Ellucian Professional Services

- Ethos Identity installation and service provider configuration

### Need Help?

Contact your CSM

Include Justin Duffell  
to support the effort

# Questions





# Thank you.