

SYNOPSIS GROUP

Email Classification using JanusSEAL

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Version Control:

Version	Description of Changes	Date	Author(s)
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What is JanusSEAL for Outlook?

janusSEAL for Outlook is an add-in to Microsoft[®] Outlook[®] that compels your users to assign a classification to every email, calendar item they send. janusSEAL for Outlook is scalable, centrally deployed via Microsoft Group Policy, and helps you to:

- Create more security awareness among your users
- Lighten the load on your IT security team
- Enhance performance of other IT security systems.

How it works

Once you've decided the security classifications you wish to use, such as **External/Public**, **Privileged/Confidential** and **Internal** as well as which message types must use them, janusSEAL for Outlook will do the rest, with these key benefits:

- Consistency users must choose a security tag depending upon their clearance, or authority, level;
- Peace of mind emails and calendar items can't be sent from Outlook unless security labelled
- Awareness the security label is visible to recipients so they know how to handle the email
- Improved monitoring email security labels can be linked to your IT security systems
- Adaptability your range of security labels can be easily updated if your needs change
- Compliance janusSEAL for Outlook is easily configured to comply with a range of Email Protective Marking Standards including UK Government GPMS (GCSx CoCo 4.1), and the Australian Government EPMS 2012.3 and many more.

What you need

To use janusSEAL Outlook you need:

- Microsoft[®] Outlook[®] 2013 (x86 and x64), 2010 (x86 and x64) or 2007
- Windows[®] 8, Windows[®] 7 or Windows[®] Vista[®].

The type of application modules available:

- 1. JanusSEAL for Documents
- 2. JanusSEAL for outlook
- 3. janusSEAL for Outlook Web App
- 4. janusGATE Mobile App (Requires janusGATE Exchange)

Server Architecture:

- JanusSEAL does not require an independent server, it makes use Group policies which consist of a set of predefined policies easily imported by the existing Active Directory Group Policy Editor
- As the application makes use of the Active Directory Structure, Policies can be applied at OU level allowing for easier management of departmental requirements
- Application has a very small data footprint (39MB)
- Group Policies are replicated to branch domain controllers via normal replication channels, policies are then applied to workstations
- Group Policies are implemented using the JanusSEAL Schema application which creates the Admin Policy Template, the template is then imported into the AD Group Policy Schema and assigned to the relevant OU's





Workstation Architecture:

- JanusSEAL works via Active Directory Group Policies, these policies determine the classification list, order of classification, administrative functions
- A client is deployed to the workstations , and is installed as an add-in to the Outlook client
- Once deployed the following changes will be seen on the Outlook messages and functions:

On New e-mails, the user will be prompted to classify the mail prior to allowing the mail to be sent.

Send ?	×		
Specify the security classification			
🖉 U <u>n</u> official 📐			
🤌 IN-CONFIDENCE			
<u>O</u> riginal Classification			
Send Cancel Help			
Protective Marking: IN-CONFIDENCE			

Figure 2: Prototype image of security classification dialog showing IN-CONFIDENCE selected (med blue) with mouse moving over Unofficial (Windows 7 buttons)

The e-mail subject line is appended with the Mail classification

Bcc	
Subject:	test mail [SEC=Public]

The message footer will display the classification status.

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Outlook Policy Settings – server level:

Public

Admin	istrative	Temp	lates
-------	-----------	------	-------

Policy definitions (ADMX files) retrieved from the local machine.

Google/Google Toolbar/Popup Whitelistshow

Policy		Setting	Winning GPO	
<u>Popup</u>	whitelist	Enabled	Google Toolbar	
	Popup whitelist			
	kn.cat.com			
	epp.bweafrica.com			
	mybarloworld.com			
	myportal.bweafrica.com			
	myhrinfo.bweafrica.com			
	epq.bweafrica.com			
	epd.bweafrica.com			

janusNET/janusSEAL/Enabled security schema elements/when any user is sending a message from this group of machines/Security classifications and qualifiersshow

Pol	icy	Setting		Winning GPO
define display of External/Public /Confidential		Enabled		Local Group Policy
	Allow selection of External/Public /Confidentia	l classification	Enabled	
Pol	icy	Setting		Winning GPO
Pol defi	ne display of Internal	Setting Enabled		Winning GPO Local Group Policy

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Policy	Setting	Winning GPO		
define display of External/Public	Enabled	Local Group Policy		
Allow selection of External/Public classificatio	n	Enabled		
Policy	Setting	Winning GPO		
janusNET/janusSEAL/Licenseshow				
Policy	Setting	Winning GPO		
turn ON janusSEAL for Outlook license	Enabled	Local Group Policy		
Licensee name		janusSEAL Evaluator		
License key		18886-29977-96717-17995-76474		
License expiry		2013-02-17		
License type		Evaluation		
Policy	Setting	Winning GPO		
turn ON janusSEAL for OWA license	Enabled	Local Group Policy		
Licensee name		janusSEAL Evaluator		
License key		03000-19988-98022-59224-02251		
License expiry		2013-02-17		
License type		Evaluation		
janusNET/janusSEAL/Outlook Specific Settings/	Custom Settings and Operat	ion <u>show</u>		
Policy	Setting	Winning GPO		
control display of the Custom Group	Enabled	Local Group Policy		
modify the title of the Custom Group	Enabled	Local Group Policy		
Title		Barloworld Equipment - Mail Classification		
anusNET/janusSEAL/Outlook Specific Settings/Custom Settings and Operation/Custom check boxshow				



Setting	Winning GPO			
Enabled	Local Group Policy			
Enabled	Local Group Policy			
Barloworld Equipmer	nt-Mail Classification			
Setting	Winning GPO			
Enabled	Local Group Policy			
Barloworld Equipmer	nt - Mail Classification			
Email specific Security Classificationsshow				
Setting	Winning GPO			
Enabled	Local Group Policy			
Enabled	Local Group Policy			
Enabled	Local Group Policy			
Enabled	Local Group Policy			
Enabled	Local Group Policy			
Enabled	Local Group Policy			
Protective Marking Formattersshow				
Setting	Winning GPO			
Disabled	Local Group Policy			
Disabled	Local Group Policy			
Disabled	Local Group Policy			
janusNET/janusSEAL/Protective Marking Policy/Protective Markings from file naming conventionshow				
Setting	Winning GPO			
	Setting Enabled Enable			

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define	e the file name component separator	Disabled		Local Group Policy
define	e the list of file extensions to exclude	Disabled		Local Group Policy
define	e the list of file extensions to include	Disabled		Local Group Policy
<u>turn C</u>	DN qualifier interpretation from file naming	Disabled		Local Group Policy
<u>conve</u>	ention			
<u>turn C</u>	ON security classification interpretation from	Disabled		Local Group Policy
<u>file na</u>	aming convention			
janus	NET/janusSEAL/Protective Marking Policy/	Protective Markings on emai	l messages <u>show</u>	
Polic	у	Setting		Winning GPO
<u>turn C</u>	DFF Subject Line Protective Markings for ALL	Enabled		Local Group Policy
<u>classi</u>	fications			
<u>turn C</u>	ON Internet eXtension Header for keeping	Enabled		Local Group Policy
histor	y of Protective Marking in replies			
<u>turn C</u>	ON Internet eXtension Header Protective	Enabled		Local Group Policy
<u>Marki</u>	ngs for ALL classifications			
<u>turn C</u>	ON Internet eXtension Header Protective	Enabled		Local Group Policy
<u>Marki</u>	ngs for SOME classifications			
	add Internet eXtension Header marking when a messages	sending Internal	Enabled	
	add Internet eXtension Header marking when a //Confidential messages	sending External/Public	Enabled	
	add Internet eXtension Header marking when a messages	sending External/Public	Enabled	
	add Internet eXtension Header marking when	sending Public messages	Enabled	
Polic	у	Setting		Winning GPO

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turn ON Message Flag Protective Markings for Enabled Local Group Policy ALL classifications Text to use for all classifications in Message Flag (tokens permitted) %DISPLAY_VALUE% Winning GPO Policy Setting Enabled Local Group Policy turn ON Message Flag Protective Markings for SOME classifications Add Message Flag marking when sending Internal messages Enabled Text to use for Internal in Message Flag (tokens permitted) %DISPLAY_VALUE% Add Message Flag marking when sending External/Public /Confidential Enabled messages Text to use for External/Public /Confidential in Message Flag (tokens %DISPLAY_VALUE% permitted) Add Message Flag marking when sending External/Public messages Enabled Text to use for External/Public in Message Flag (tokens permitted) %DISPLAY_VALUE% Add Message Flag marking when sending Public messages Enabled %DISPLAY_VALUE% Text to use for Public in Message Flag (tokens permitted) Winning GPO Policy Setting turn ON Outlook User Property (internal only) Enabled Local Group Policy Protective Markings for ALL classifications Text to use for all classifications in Outlook User Property (tokens %DISPLAY_VALUE% permitted) Policy Setting Winning GPO turn ON Outlook User Property (internal only) Enabled Local Group Policy Protective Markings for SOME classifications Add User Property marking when sending Internal messages Enabled

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	Text to use for Internal in Outlook User Property (tokens permitted)	%DISPLAY_VALUE%
	Add User Property marking when sending External/Public /Confidential messages	Enabled
	Text to use for External/Public /Confidential in Outlook User Property (tokens permitted)	%DISPLAY_VALUE%
	Add User Property marking when sending External/Public messages	Enabled
	Text to use for External/Public in Outlook User Property (tokens permitted)	%DISPLAY_VALUE%
	Add User Property marking when sending Public messages	Enabled
	Text to use for Public in Outlook User Property (tokens permitted)	%DISPLAY_VALUE%
Pol	icy Setting	Winning GPO
Pol	icy Setting	Winning GPO Local Group Policy
Pol turr SO	icy Setting ON Subject Line Protective Markings for Enabled ME classifications	Winning GPO Local Group Policy
Pol turr SO	icy Setting ON Subject Line Protective Markings for Enabled ME classifications add Subject Line marking when sending Internal messages	Winning GPO Local Group Policy Enabled
Pol turr SO	icy Setting ON Subject Line Protective Markings for Enabled ME classifications add Subject Line marking when sending Internal messages add Subject Line marking when sending External/Public /Confidential messages	Winning GPO Local Group Policy Enabled Enabled
Pol turr SO	icy Setting ON Subject Line Protective Markings for Enabled ME classifications Enabled add Subject Line marking when sending Internal messages add Subject Line marking when sending External/Public /Confidential messages add Subject Line marking when sending External/Public messages add Subject Line marking when sending External/Public messages	Winning GPO Local Group Policy Enabled Enabled Enabled
Pol turr SO	icy Setting N Subject Line Protective Markings for Enabled ME classifications Enabled add Subject Line marking when sending Internal messages add Subject Line marking when sending External/Public /Confidential messages add Subject Line marking when sending External/Public messages	Winning GPO Local Group Policy Enabled Enabled Enabled Enabled Enabled
Pol turr SO	icy Setting ON Subject Line Protective Markings for Enabled ME classifications add Subject Line marking when sending Internal messages add Subject Line marking when sending External/Public /Confidential messages add Subject Line marking when sending External/Public messages add Subject Line marking when sending Public messages add Subject Line marking when sending Public messages add Subject Line marking when sending Public messages	Winning GPO Local Group Policy Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled

Policy	Setting	Winning GPO
turn ON append Message Body Protective	Disabled	Local Group Policy
Markings for ALL classifications		
turn ON append Message Body Protective	Disabled	Local Group Policy
Markings for External/Public /Confidential		
classified messages		



turn ON append Message Body Protective	Disabled	Local Group Policy
Markings for Internal classified messages		
turn ON append Message Body Protective	Disabled	Local Group Policy
Markings for External/Public classified messages		
turn ON append Message Body Protective	Disabled	Local Group Policy
Markings for Public classified messages		
turn ON prepend Message Body Protective	Disabled	Local Group Policy
Markings for ALL classifications		
turn ON prepend Message Body Protective	Disabled	Local Group Policy
Markings for External/Public /Confidential		
<u>classified messages</u>		
turn ON prepend Message Body Protective	Disabled	Local Group Policy
Markings for Internal classified messages		
turn ON prepend Message Body Protective	Disabled	Local Group Policy
Markings for External/Public classified messages		
turn ON prepend Message Body Protective	Disabled	Local Group Policy
Markings for Public classified messages		

janusNET/janusSEAL/Protective Marking Policy/Protective Markings on Office filesshow

Policy	Setting	Winning GPO
define the list of file extensions to exclude	Disabled	Local Group Policy
define the list of file extensions to include	Disabled	Local Group Policy
turn ON Microsoft Office document security	Disabled	Local Group Policy
turn ON Microsoft Office document security	Disabled	Local Group Policy
classification qualifier metadata		
janusNET/janusSEAL/Security Schema Definitionshow		

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Pol	icy	Setting		Winning GPO	
defi	ne display text values of all Security	Enabled		Local Group Policy	
Clas	ssifications				
	define Internal classification's display text val	ues:			
	Internal DisplayValue				
	Internal DisplayWithQualifierLayout				
	Internal ToolTip				
	define External/Public classification's display	text values:			
	External/Public DisplayValue				
	External/Public DisplayWithQualifierLayout				
	External/Public ToolTip				
	define External/Public /Confidential classificat	ion's display text values:			
	External/Public /Confidential DisplayValue				
	External/Public /Confidential DisplayWithQua	lifierLayout			
	External/Public /Confidential ToolTip				
Pol	icy	Setting		Winning GPO	
turn	ON security schema definition of mail schema	Enabled		Local Group Policy	
test					
	WARNING: It is HIGHLY RECOMMENDED the	nat you leave ALL of these item	ns checked!		
	To disable specific items from janusSEAL user interfaces, modify policy settings elsewhere!				
	unchecking any one of these items could BRE	EAK your janusSEAL configura	tion		
	turn on bweafrica.com namespace definition		Disabled		
	turn on bweafrica.com namespace version 3 o	definition	Disabled		
	turn on Public classification definition		Enabled		

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	turn on Internal classification definition		Enabled
	turn on External/Public classification definitio	n	Enabled
	turn on External/Public /Confidential classifica	ation definition	Enabled
	turn off definition of PUBLIC from default insta	allation settings	
	turn off definition of EXTERNAL/PUBLIC /CO installation settings	NFIDENTIAL from default	
Pol	icy	Setting	Winning GPO
turr	ON security schema definition of OWA	Disabled	Local Group Policy
jan	usNET/janusSEAL/User Interface Appearanc	e and Behaviour <u>show</u>	
Pol	icy	Setting	Winning GPO
me	ssages displayed when an item's minimum	Enabled	Local Group Policy
classification changes			
Ĩ	Minimum Classification Removed message		The item's minimum mail classification has been removed.\r\n\r\nCheck that the selected security classification is still appropriate.
	Minimum Classification Lowered message		The item's minimum mail classification has been reduced.\r\n\r\nCheck that the selected security classification is still appropriate.
	Minimum Classification Increased message		The item's mail classification has been changed.\r\n\r\nlt has been replaced with the security classification of the attachment you have just added.
	Minimum Classification Increased and no long	ger selectable message	The items' mail classification has been changed to a classifcation that is normally not selectable, and so cannot be appropriately handled.\r\n\r\nTry removing the most recently added attachment.
Pol	icy	Setting	Winning GPO
<u>Prir</u> 200	nt Classified button is NOT visible in Outlook	Disabled	Local Group Policy
text	to display when a message being viewed	Enabled	Local Group Policy
	o not nave a discernable classification		
	No classification text		Mail Unclassified
		D 44	

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Policy	Setting		Winning GPO
text to display when a message is being	Enabled		Local Group Policy
composed, and no classification has been set			
Still to be classified text		to be classified	
janusNET/janusSEAL/User Interface Appearanc Classification Toolbarshow	e and Behaviour/in ALL janu	sSEAL applications of	on this group of machines/Compose Security
Policy	Setting		Winning GPO
allow a caption to be present next to the security	Enabled		Local Group Policy
classification drop list			
Text to be used as caption of the security class	ssification drop list	Mail & Classification	
Policy	Setting		Winning GPO
define a tool tip for the security classification	Enabled		Local Group Policy
toolbar			
Text to be used as the tool tip for the security	classification drop list	Specify the item's ma	ail classification
Policy	Setting		Winning GPO
security classification toolbar is NOT visible	Enabled		Local Group Policy
janusNET/janusSEAL/User Interface Appearanc Dialog <u>show</u>	e and Behaviour/in ALL janu	sSEAL applications o	on this group of machines/On Send Classification
Policy	Setting		Winning GPO
modify the caption of the Cancel button on the	Enabled		Local Group Policy
OnSend classification dialog			
Cancel button caption		Cancel	
Policy	Setting		Winning GPO
modify the caption of the Help button on the	Disabled		Local Group Policy
OnSand elevation dieleg			

OnSend classification dialog

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modify the caption of the OK (main) button on the Enabled Local Group Policy OnSend classification dialog OK button caption Send Winning GPO Policy Setting modify the caption of the Original button on the Enabled Local Group Policy OnSend classification dialog Original button caption & Original Classification Policy Setting Winning GPO modify the classification groupbox label of the Enabled Local Group Policy OnSend classification dialog Specify the mail classification Classification groupbox label Policy Setting Winning GPO modify the text leader of the Status Bar on the Enabled Local Group Policy OnSend classification dialog Status bar leader Mail Classification Policy Setting Winning GPO modify the title of the OnSend classification dialog Local Group Policy Enabled Barloworld Equipment - Mail Classification Title bar text Policy Setting Winning GPO Local Group Policy modify the tooltip text of the Original button on the Enabled OnSend classification dialog Original button tooltip text (Classification of the original message) Winning GPO Policy Setting

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prevent display of dialog if classification set during Disabled

Local Group Policy

composition

janusNET/janusSEAL/User Interface Appearance and Behaviour/Reply and Forward Behaviourshow

JanusGate Mobile (Active Sync):

janusSEAL Mobile App is a helper application for mobile devices that assists users to create Email messages with a protective marking in the subject line. On a mobile device, it's main Screen looks like, the order and wording to be customised:

.ııl.	9:35 AM 💷
	Subject: Specify the subject you want for your new message.
	Protective Marking: Select the protective marking appropriate for your new message.
	 Unofficial UNCLASSIFIED For Official Use Only Sensitive Sensitive: Personal Sensitive: Legal
	Create Message Reset

- Group policies are applied on the Active Sync server , as for JanusSEAL for Outlook
- Clients are required to download the mobile app to their devices and register prior to being able to classify mail via a mobile device (Android or Apple OS)
 - Process to get this done.
 - Visit web site <u>http://m.janusNET.com/jsm</u>



Register email address

To access janusSEAL Mobile, first tell us who you are.

Submit your email address. If your organisation is licensed to use janusSEAL Mobile you'll be emailed a verification code. Good luck!

your proformed language.	
your preierred language.	
English (United Kingdom)	
English is the only currently s	supported language, but select your preference for future
use.	

- Client to use the existing @Barloworld-equipment e-mail address when subscribing.
- Client will receive a confirmation e-mail at the e-mail address provided with a verification code.

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From:	janusSEAL Mobile [janusSEAL.Mobile@m.janusnet.com]
To:	janusNET
Cc	
Subject:	janusSEAL Mobile - email address verification

Thanks for registering to use janusSEAL Mobile.

To complete the registration process, please visit <u>http://m.janusnet.com/jsm/?</u> c=99d28f81e8fb41d1ad5f3c288348d458&I=en-GB

Manual verification

If the link above does not work, then you need to go to <u>http://m.janusnet.com/jsm/V.aspx</u> and copy and paste the verification code (supplied below) into the page.

verification code

```
99d28f81-e8fb-41d1-ad5f-3c288348d458
```

This verification code will expire in 48 hours from the time you applied for it.

Verify email address

Success

Your janusSEAL Mobile account has been activated. Click here to send an email.

janusSEAL Mobile

• Once done the client will see a JanusSEAL application on the device.

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• In order to classify mail the janusSEAL application must be used to send mail

NOTE:

For some devices, if the user has multiple email accounts configured on the device, then when janusSEAL Mobile App creates a new message the from address field may be that of the default mail account on the device rather than the email address registered with janusSEAL Mobile App.

janusSEAL Mobile App does tell the email software on the device that the registered email address should be used for the from field of the new message, but some devices ignore this information and simply revert to that of the default mail account on the device.

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Workaround(s)

The only real work-arounds to this problem are:

- 1. The user should change the default email account on the device to that which they registered for use with janusSEAL Mobile Appplication
- 2. For every message created by janusSEAL Mobile App the user has to change the From field
 - to that which is registered for use with janusSEAL Mobile App

Rules Engine settings – server level (active sync):

After install, the janusGATE Rules Engine has a single rule with two sub-rules:

- 1. The parent rule is used to detect any items being synchronised to the device *and* which are security classified as, EXTERNAL/PUBLIC, INTERNAL and PRIVILEGED/CONFIDENTIAL (according to their subject line security classification label based on the Australian Government standard); the sub-rules then
 - a. if the item is an email message (which includes meeting requests) then the message content is replaced
 - b. if the item is a calendar item then the item is dropped so it is never synchronised to the device

For rule 1a, the Engine:

a. replaces the text of the body with the content:

A message sent to you has not been delivered to your mobile device because the original message contained sensitive data.

WARNING - do NOT delete this message as doing so will delete the original message in your inbox!!

The original message is available in your e-mail inbox at work.

Original message details -Subject : %Subject% From : "%From.Name%" <%From.Address%> Received : %DateReceived% Attachments: %Attachments.Count%

where the token %Subject% is replaced with the subject of the original message prior to modification, %From.Name% is replaced with the display name of the sender of the message, %From.Address% is replaced with the email address of the sender of the message, %DateReceived% is replaced with the date and time the message was received in the mailbox at work and %Attachments.Count% is replaced with the number of attachments that are in the original message.

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- b. removes any attachments that are present
- c. replaces the subject of the message with the content:

Message delivery blocked [SEC=UNCLASSIFIED]

d. replaces the thread topic (used in conversation view) of the message with the content:

Message delivery blocked [SEC=UNCLASSIFIED]

e. changes the message class to

REPORT.IPM.Note.NDR

On some devices this causes the message icon to appear as an alert icon so the recipient is aware a message has not been delivered to their device.

- f. removes any reminder flag information if present
- g. sets the message importance to Normal.

For rule 1b, the Engine:

a. prevents the calendar item from being synchronised to the device, with no notice being sent to the end-user that the item has not been synchronised.

JanusSEAL for OWA: (Outlook Web Access)

This is to allow mail classification when accessing business mail via OWA (mail.barloworl-equipment.com/owa) using an Internet Browser.

- No client requirements / configuration
- Server based policy settings as with JanusSEAL for Outlook
- The same policies apply as shown above for Outlook
- Same scenarios apply as for Outlook client

Phase 1 of rollout:

- Define policy settings
 - o List classification criteria
 - Exclusions if required
 - Rollout of client application to test user base
- Confirm satisfaction of functionality
- Rollout of application to organisation

Phase 2 of Rollout:

- Define Mobile e-mail policies
- Setup Policies on Exchange ActiveSync Server / BES server/OWA

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- Deploy policies to test user base
- Confirm satisfaction of functionality
- Rollout policy to organisation

Phase 3 of rollout:

- Document classification (janusSEAL for MS Office)
- Define policy for classification of Office documents
- Rollout policy to test user base
- Confirm satisfaction of functionality
- Rollout policy to organisation

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