# Configurar nombres de dominio UTF-8 (IDN) en 14.X

## Contenido

## Introducción

Este documento describe cómo configurar y utilizar la nueva función UTF-8 International Domain Name (IDN) añadida a Secure Email Gateway (ESA) y Secure Email Cloud Gateway (CES) en el código 14.x

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## Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

Conceptos y configuración de ESA

## Componentes Utilizados

La información de este documento se basa en AsyncOS para ESA 14.0 y posteriores.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

# Idiomas admitidos en 14.x para el soporte de IDN

## Lenguas regionales indias

hindi, tamil, telugu, canarés Marati, punjabi, malayalam, bengalí, Gujarati, urdu, assamés, nepalí, Bodo, bengalí, Dogri, Cachemira, Konkani, Maithili, Manipuri, Oriya, Sanskrit, Santali, Sindhi, Tulu.

## Lenguas europeas/asiáticas

Francés, ruso, japonés, alemán, ucraniano, coreano, español, italiano, chino, holandés, tailandés, árabe, kazajo

## Formatos compatibles con IDN

- Dominio IDN completo: अन अ न् ता@जी^.Compati, ÷÷÷÷÷÷÷÷÷÷÷.Compati
- Dominio IDN parcial: .को म , యు హఽ.జఄఄ
- ASCII, combinación de IDN: test@जी मे ल.को म

# ¿Dónde se admite IDN?

## Rutas SMTP

Navegue hasta Red -> Rutas SMTP -> **Agregar Ruta** -> **Agregar dominio IDN** -> **Enviar** -> **Registrar**

## Dominios DNS

Podemos agregar o editar dominios IDN en servidores DNS.

Navegue hasta Red -> DNS -> Editar configuración -> **Agregar** el dominio IDN bajo "reemplazos de servidor DNS alternativo"



### NOTE:

·dominios de IDN público son resueltos por el servidor DNS raíz público/de Internet.

·dominios IDN locales: En el servidor DNS local, cree archivos de zona con registros en formato de código de acceso equivalente a dominios IDN [por ejemplo: xn—2scrj9c.xn—2scrj9c.] para manejar la resolución de los nombres de dominio IDN locales.

## Receptor - RAT/HAT

Podemos utilizar el soporte de IDN en:

- Receptores entrantes/salientes -> Agregar/editar dominios IDN en dominio predeterminado
- HAT/RAT ->Agregar/editar dominios IDN en HAT/RAT
- Importar/exportar tablas HAT/RAT con IDN

Para configurar la Tabla de Acceso de Destinatarios (**RAT**) con IDN, navegue hasta **Políticas de Correo** -> **Tabla de Acceso de Destinatarios (RAT)** y haga clic en **Agregar Destinatario** -> **Agregar el Dominio IDN** -> **Enviar** -> **Registrar**

## Recipient Access Table Overview

Success — Recipient Access Table entry for "जीमेल.कोम" was added.

Mode —**Cluster: ESA_BETA_CLUSTER**          Change Mode...
▷ Centralized Management Options

| Overview for Listener: Incoming | | Items per page 20 |
|---|---|---|
| Add Recipient... | | Clear All Entries   Import RAT... |

| Order | Recipient Address | Default Action | All □ Delete |
|---|---|---|---|
| 1 | humaaralab.com | Accept | □ |
| 2 | doosralab.com | Accept | □ |
| 3 | जीमेल.कोम | Accept | □ |
| | All Other Recipients | Reject | |

Edit Order...   Export RAT...                                    Delete

Para configurar los grupos de remitentes de la tabla de acceso de host (HAT) con dominios IDN, navegue hasta Políticas de correo -> Descripción general de HAT -> Agregar nuevo grupo de remitentes -> Enviar y agregar remitentes con el nombre de host IDN -> Enviar -> Commit

Success — Sender "जीमेल.कोम" was added.

Mode —Cluster: ESA_BETA_CLUSTER                    Change Mode...

▷ Centralized Management Options

**Sender Group Settings**

| | |
|---|---|
| Name: | IDN_Support |
| Order: | 9 |
| Comment: | IDN Support |
| Policy: | ACCEPTED |
| SBRS (Optional): | Not in use |
| External Threat Feed (Optional): *For IP lookups only* | None |
| DNS Lists (Optional): | None |
| Connecting Host DNS Verification: | None Included |

<< Back to HAT Overview                                  Edit Settings...

**Find Senders**

| Find Senders that Contain this Text: ⑦ | | Find |
|---|---|---|

**Sender List: Display All Items in List**                    Items per page 20

Add Sender...

| Sender | Comment | All ☐ Delete |
|---|---|---|
| जीमेल.कोम | idn sender | ☐ |

<< Back to HAT Overview                                          Delete

NOTE: Puede seguir el mismo proceso para editar cualquier grupo de remitentes y agregar los dominios IDN.

## Políticas de correo entrante/saliente - Remitentes/destinatarios

Para configurar las políticas de correo entrante para manejar IDN, navegue hasta **Políticas de correo** -> **Agregar política** -> Proporcionar nombre de política-> **Agregar usuarios**

Puede elegir utilizar dominios IDN en ambos remitentes/destinatarios o probar cualquier combinación ->Enviar ->Registrar

# Incoming Mail Policies

Mode — **Cluster: ESA_BETA_CLUSTER**

Change Mode...

▸ Centralized Management Options

## Add User

○ Any Sender
● Following Senders
○ Following Senders are Not

Email Address:

@ifbr.nbe

*(e.g. user@example.com, user@, @example.com, @.example.com)*

LDAP Group:

Query: LDAP.group

Group: [          ]  Add Group   Remove

○ Any Recipient
● Following Recipients

e-jpe@ometa.sbei

*(e.g. user@example.com, user@, @example.com, @.example.com)*

☐ Cisco Security Awareness not configured.

LDAP Group:

Query: LDAP.group

Group: [          ]  Add Group   Remove

☐ Following Recipients are Not

Email Address:

*(e.g. user@example.com, user@, @example.com, @.example.com)*

LDAP Group:

Query: LDAP.group

Group: [          ]  Add Group   Remove

Cancel

OK

**NOTE:** Puede seguir el mismo proceso para las políticas de correo saliente.

## Tabla de excepciones

Para agregar nombres de dominio IDN a la tabla de excepciones, vaya a

**Mail Policy -> Exception Table -> Add Sender Verification Exception -> Add the IDN Domains -> Submit -> Commit**

## Listas de direcciones

Para agregar nombres de dominio IDN a la lista de direcciones, vaya a

**Mail Policy -> Address List -> Add address List -> Ingrese los dominios IDN en el cuadro -> Submit -> Commit**

## Address Lists

Mode —**Cluster: ESA_BETA_CLUSTER**

▷ Centralized Management Options

Change Mode...

| Address Lists | | | | |
|---|---|---|---|---|
| Add Address List... | | | | |
| Address List Name | Description | Used for | Addresses | All ☐ Delete |
| IDN-Support | IDN-Support-test | | (3) ಅನ್ನಿತಾ@ಯಾಹೂ.ಔಡತೆ, @जीमेल.कोम,... | ☐ |
| | | | | Delete |

## Controles de destino

Para agregar nombres de dominio IDN al control de destino, vaya a

**Políticas de correo -> Controles de destino -> Agregar destino -> Puede agregar el nombre de dominio IDN -> Enviar -> Registrar**

| Monitor | Mail Policies | Security Services | Network | System Administration |
|---|---|---|---|---|

### Add Destination Controls

Mode —**Cluster: ESA_BETA_CLUSTER**

▷ Centralized Management Options

Change Mode...

**Destination Controls**

Destination: जीमेल.कोम

IP Address Preference: Default (IPv6 Preferred)

Limits:

Concurrent Connections:
○ Use Default (500)
● Maximum of 500 (between 1 and 1,000)

Maximum Messages Per Connection:
○ Use Default (50)
● Maximum of 50 (between 1 and 1,000)

Recipients:
● Use Default (No Limit)
○ Maximum of 0 per 60 minutes
Number of recipients between 0 and 1,000,000,000 per number of minutes between 1 and 60

Apply limits: Per Secure Email hostname:
● System Wide
○ Each Virtual Gateway
(recommended if Virtual Gateways are in use)

TLS Support: Default (None)

DANE Support: ⑦ Default (None)

Bounce Verification:
Perform address tagging: ● Default (No)
○ No
○ Yes
Applies only if bounce verification address tagging is in use. See *Mail Policies > Bounce Verification*.

Bounce Profile: Default
Bounce Profile can be configured at *Network > Bounce Profiles*.

*Note: DANE will not be enforced for domains that have SMTP Routes configured.*

Cancel                                                                 Submit

## Perfiles de rebote

El destinatario de los mensajes de rebote y de advertencia se puede configurar con el nombre de dominio IDN en Perfiles de rebote.

Navegue hasta **Red** -> **Perfiles de rebote** -> **Agregar perfil de rebote** -> Introducir nombre -> Configurar los valores para Perfil de rebote -> Para el Destinatario de Mensajes de rebote y Advertencia -> Seleccione **Dirección alternativa** y puede elegir utilizar la dirección de dominio IDN.

## LDAP

Ahora puede tener las consultas LDAP accept/group con nombres de dominio IDN como se muestra en la imagen.

## Incoming Mail Policies

**Edit User**

○ Any Sender
● Following Senders
○ Following Senders are Not

Email Address:

अरुण@

*(e.g. user@example.com, user@, @example.com, @.example.com)*

LDAP Group:

Query: openLdap1.group ⌄

Group: [            ]  [ Add Group ] [ Remove ]

ldap(CN=samlusergroup,CN=Users,DC=samladfs,DC=com,WinLDAP.group)

[If one or more conditions match ⌄]

○ Any Recipient
● Following Recipients

नितिन@

*(e.g. user@example.com, user@, @example.com, @.example.com)*

☐ Cisco Security Awareness not configured.

LDAP Group:

Query: openLdap1.group ⌄

Group: [            ]  [ Add Group ] [ Remove ]

ldap(CN=भारत,CN=Users,DC=samladfs,DC=com,WinLDAP.group)

## Cuarentena de spam local

Puede ver que la cuarentena SPM local muestra los nombres de dominio IDN en la dirección de correo electrónico de usuario/dominios/asunto

**Search**

Note: For best performance your search should contain an envelope recipient.

Messages Received:
- ○ Today
- ● Last 7 days
- ○ Date Range: [＿＿＿＿] and [＿＿＿＿]

Where [From ▾] [Contains ▾] : [＿＿＿＿＿＿＿＿＿＿＿＿＿]

Envelope Recipient ⑦ [Is ▾] : [＿＿＿＿＿＿＿＿＿＿＿＿＿]

[ Clear Search ]          14 items found          [Search]

**Search Results**                                Items per page [25 ▾]

Displaying 1 — 14 of 14 items.

[Release] [Delete]

| ☐ | From | Envelope Recipient | To | Subject | Date ▾ | Size |
|---|------|--------------------|----|---------|--------|------|
| ☐ | | anvitha@doosralab.com | | [SUSPICIOUS MESSAGE] this is to test policy | 10 Feb 2021 16:30 (GMT -06:00) | 3.6K |
| ☐ | → | अनअन्विता2@जीमेल.कोम | | Please read as this is very என்று நம்புகிறேன் for both the countries. ← | 09 Feb 2021 21:49 (GMT -06:00) | 7.3K |
| ☐ | → | あなたは誰ですか2@ヤフー.com | | this is japanese test 今は17時38分です | 09 Feb 2021 21:37 (GMT -06:00) | 3.5K |
| ☐ | | 你是誰2@明天.在 | | Please read as this is very என்று நம்புகிறேன் for both the countries. | 09 Feb 2021 21:18 (GMT -06:00) | 3.4K |
| ☐ | → | 你是誰2@明天.在 | | Please read as this is very என்று நம்புகிறேன் for both the countries. | 09 Feb 2021 17:13 (GMT -06:00) | 7.6K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very என்று நம்புகிறேன் for both the countries. | 09 Feb 2021 17:11 (GMT -06:00) | 8.8K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very என்று நம்புகிறேன் for both the countries کی . | 09 Feb 2021 17:02 (GMT -06:00) | 4.7K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very என்று நம்புகிறேன் for both the countries. | 09 Feb 2021 17:00 (GMT -06:00) | 5.1K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very ಮೂಡುತ್ತಿದ್ದೀರಿ ಎಂದು ಭಾವಿಸುತ್ತೇನೆ for both the countries. | 09 Feb 2021 16:54 (GMT -06:00) | 5.2K |
| ☐ | | anvitha@doosralab.com | | this is a test | 09 Feb 2021 16:01 (GMT -06:00) | 3.3K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very என்று நம்புகிறேன் for both the countries کی . | 09 Feb 2021 15:49 (GMT -06:00) | 8.1K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very என்று நம்புகிறேன் for both the countries. | 09 Feb 2021 15:41 (GMT -06:00) | 8.8K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very आशा for both the countries. | 08 Feb 2021 21:53 (GMT -06:00) | 5.0K |
| ☐ | | anvitha@humaaralab.com | | Please read as this is very आशा for both the countries. | 08 Feb 2021 21:47 (GMT -06:00) | 3.9K |

[Release] [Delete]

NOTE: PVO Quarantine local muestra un comportamiento similar al de Spam Quarantine.

# Verificación y resolución de problemas

1) Los informes de ESA y SMA (Secure Email and Web Manager) ahora admiten IDN. Podemos ver nombres de usuario/dominio/dirección de correo electrónico en formato IDN en informes

Vaya a **Monitor** -> **Usuarios internos**
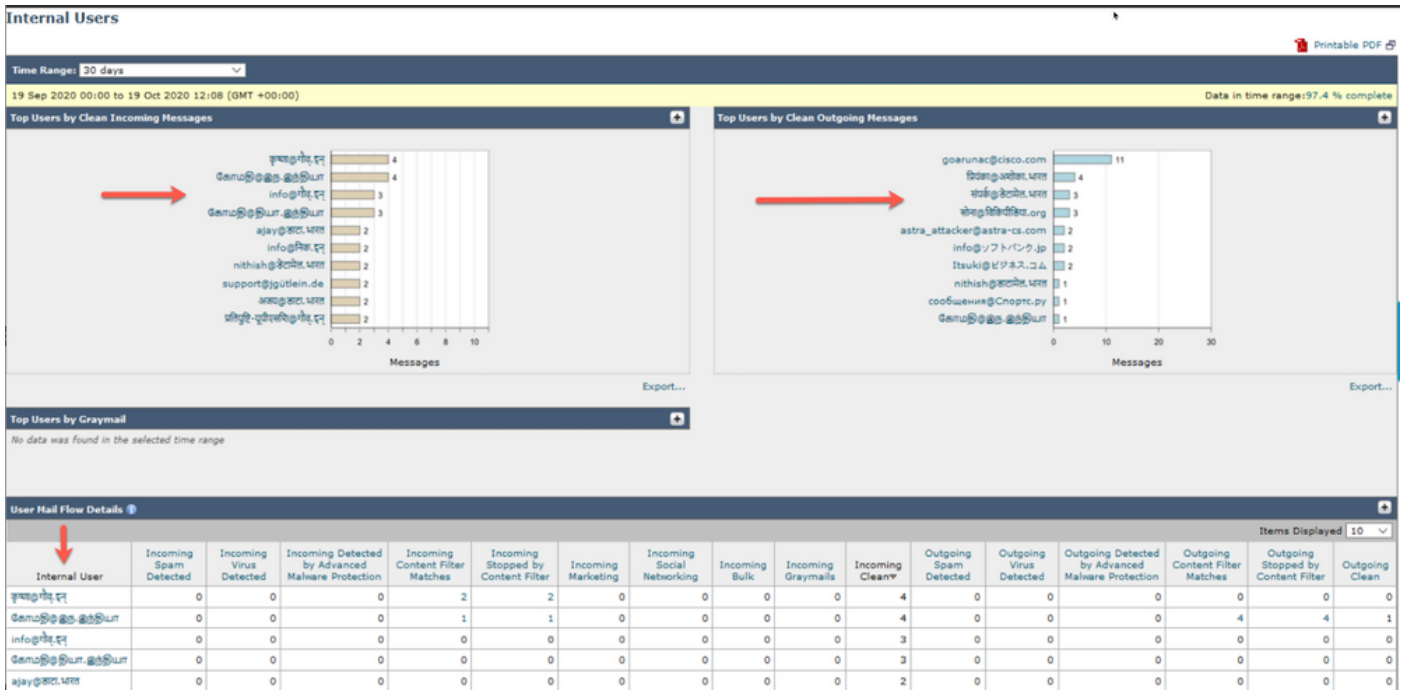
2) En **Rastreo de mensajes** podemos ver el nombre de dominio IDN y también filtrar con los dominios IDN/nombres de usuario/dirección de correo electrónico



3) Utilice el comando grep o tail de CLI para ver **"mail_logs"** y vemos los dominios IDN en los registros

```
Mon Feb  8 21:47:11 2021 Info: Start MID 23569633 ICID 148853
Mon Feb  8 21:47:11 2021 Info: MID 23569633 ICID 148853 From:

    <@.>



Mon Feb  8 21:47:19 2021 Info: MID 23569633 ICID 148853 RID 0 To: <test@lab.com>
Mon Feb  8 21:47:52 2021 Info: MID 23569633 Subject 'Please read as this is very  for both the
countries.'
Mon Feb  8 21:47:52 2021 Info: MID 23569633 SDR: Domains for which SDR is requested: reverse DNS
host: sample.host.com, helo: lab.com, env-from: ., header-from: Not Present, reply-to: Not
Present
Mon Feb  8 21:47:53 2021 Info: MID 23569633 SDR: Consolidated Sender Reputation: Tainted, Threat
Category: N/A, Suspected Domain(s) : lab.com. Youngest Domain Age: 3 months 29 days for domain:
lab.com
Mon Feb  8 21:47:53 2021 Info: MID 23569633 SDR: Tracker Header :
87dSxFfNYdSiOahrxSUZFOrdpenKiF6J2uKiPf+SFKCtj52hNCpe6LDQ8UFAliGnUDA7FsuXLvHTcaATt6AKG4PWLpwEeo/d
cIPBUOdxB48=
Mon Feb  8 21:47:53 2021 Info: MID 23569633 ready 605 bytes from

    <@.>



Mon Feb  8 21:47:53 2021 Info: MID 23569633 matched all recipients for per-recipient policy
DEFAULT in the inbound table
Mon Feb  8 21:47:53 2021 Info: MID 23569633 interim verdict using engine: CASE spam positive
Mon Feb  8 21:47:53 2021 Info: MID 23569633 using engine: CASE spam positive
Mon Feb  8 21:47:53 2021 Info: ISQ: Tagging MID 23569633 for quarantine
Mon Feb  8 21:47:53 2021 Info: MID 23569633 interim AV verdict using McAfee CLEAN
Mon Feb  8 21:47:53 2021 Info: MID 23569633 interim AV verdict using Sophos CLEAN
Mon Feb  8 21:47:53 2021 Info: MID 23569633 antivirus negative
Mon Feb  8 21:47:53 2021 Info: MID 23569633 AMP file reputation verdict : SKIPPED (no attachment
in message)
Mon Feb  8 21:47:53 2021 Info: MID 23569633 using engine: GRAYMAIL negative
Mon Feb  8 21:47:53 2021 Info: MID 23569633 Custom Log Entry: SDR Age is less than 1 Year
Mon Feb  8 21:47:53 2021 Info: MID 23569633 Outbreak Filters: verdict negative
Mon Feb  8 21:47:53 2021 Info: MID 23569633 Message-ID '<d35764$mf971@esa1.lab.com>'
Mon Feb  8 21:47:53 2021 Info: MID 23569633 queued for delivery
Mon Feb  8 21:47:53 2021 Info: New SMTP DCID 250225 interface 10.0.202.17 address 10.0.201.5
port 6025
Mon Feb  8 21:47:53 2021 Info: DCID 250225 STARTTLS command not supported
Mon Feb  8 21:47:53 2021 Info: Delivery start DCID 250225 MID 23569633 to RID [0] to offbox
IronPort Spam Quarantine
Mon Feb  8 21:47:53 2021 Info: Message done DCID 250225 MID 23569633 to RID [0] (external
quarantine)
Mon Feb  8 21:47:53 2021 Info: MID 23569633 RID [0] Response 'ok:  Message 27293054 accepted'
Mon Feb  8 21:47:53 2021 Info: Message finished MID 23569633 done
Mon Feb  8 21:47:58 2021 Info: DCID 250225 close
```

# Información Relacionada

- [Dispositivo de seguridad Cisco Email Security Appliance - Guías de usuario final](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)