

# 14.xでのUTF-8 (IDN)ドメイン名の設定

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## 概要

このドキュメントでは、14.xコードのSecure Email Gateway(ESA)およびSecure Email Cloud Gateway(CES)に追加された新しいUTF-8国際ドメイン名(IDN)機能の設定方法と使用方法について説明します

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## 要件

次の項目に関する知識があることが推奨されます。

ESAの概念と設定

## 使用するコンポーネント

このドキュメントの情報は、ESA 14.0以降のAsyncOSに基づくものです。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期（デフォルト）設定の状態から起動しています。本稼働中のネットワークでは、各コマンドによって起こる可能性がある影響を十分確認してください。

## 14.xでサポートされるIDNサポート言語

### インド地域言語

ヒンディー語、タミル語、テルグ語、カンナダ語、マラティ、パンジャビ、マラヤラム語、ベンガル語、グジャラート語、ウルドゥ語、アッサム語、ネパール語、バングラボドドグリ、カシミーリ、コンカニ、Maithili、Manipuri、Oriya、Sanstrit、Santali、Sindhi、Tulu。

### ヨーロッパ/アジア言語

フランス語、ロシア語、日本語、ドイツ語、ウクライナ語、韓国語、スペイン語、イタリア語、中国語、オランダ語、タイ語、アラビア語、カザフ語

### IDNでサポートされる形式

- 完全IDNドメイン：अनअन्वति@जीमेल.कोम, ಅನ್ವತಿ@ಯಾಹೂ.ಜ್ಞತೆ
- 部分IDNドメイン：.कोम, ಯಾಹೂ.ಜ್ಞತೆ
- ASCII、IDNの組み合わせ：test@जीमेल.कोम

## IDNのサポート対象

### SMTPルート

[Network] -> [SMTP Routes] -> [Add Route] -> [Add the IDN domain] -> [Submit] -> [Commit] に移動します

Mode —Cluster: ESA\_BETA\_CLUSTER Change Mode...

Centralized Management Options

#### SMTP Route Settings

Receiving Domain: ?	जीमेल.कोम		
Destination Hosts:	Priority ?	Destination ?	Port
	0	10.1.1.1 <small>(Hostname, IPv4 or IPv6 address.)</small>	25
Outgoing SMTP Authentication:	No outgoing SMTP authentication profiles are configured. See <a href="#">Network &gt; SMTP Authentication</a>		

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

Cancel Submit

# DNSドメイン

DNSサーバでIDNドメインを追加または編集できます。

[Network] -> [DNS] -> [Edit settings] -> [Add the IDN domain under "alternate DNS server overrides"]に移動します

Mode —Cluster: ESA\_BETA\_CLUSTER

Change Mode...

Centralized Management Options

### DNS Server Settings

DNS Servers:  Use these DNS Servers

Priority ?	Server IP	Add Row
0	10.0.201.2	🗑️
1	10.0.201.12	🗑️

Alternate DNS servers Overrides (Optional):

Domain(s)	DNS Server IP Address	Add Row
जीमिन.कॉम <i>i.e., example.com, example2.com</i>	10.1.1.4 <i>i.e., 10.0.0.3</i>	🗑️

Use the Internet's Root DNS Servers

Alternate DNS servers Overrides (Optional):

Domain	DNS Server FQDN	DNS Server IP Address	Add Row
			🗑️
<i>i.e., example.com</i>	<i>i.e., dns.example.com</i>	<i>i.e., 10.0.0.3</i>	

Interface for DNS Traffic: Auto

Wait Before Timing out Reverse DNS Lookups: 20

Cancel Submit

注 :

- ・パブリックIDNドメインは、パブリック/インターネットルートDNSサーバによって解決されま
- す。
- ・ローカルIDNドメイン : ローカルDNSサーバで、IDNドメインに相当するpunycode形式のレコ
- ードを持つゾーンファイルを作成します[例 : xn—2scrj9c.xn—2scrj9c.]を使用して、ローカル
- IDNドメイン名の解決を処理します。

## リスナー – RAT/HAT

IDNサポートは次の場所で使用できます。

- [Inbound/Outbound Listeners] -> [Add/Edit IDN domains in Default domain]
- HAT/RAT ->HAT/RATのIDNドメインの追加/編集

- IDNを使用したHAT/RATテーブルのインポート/エクスポート

IDNで受信者アクセステーブル(RAT)を設定するには、[Mail policies] -> [Recipient Access Table (RAT)]に移動し、[Add Recipient] -> [Add the IDN Domain] -> [Submit] -> [Commit]をクリックします

## Recipient Access Table Overview

Success — Recipient Access Table entry for "जीमेल.कॉम" 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	<input type="checkbox"/>
2	doosralab.com	Accept	<input type="checkbox"/>
3	जीमेल.कॉम	Accept	<input type="checkbox"/>
All Other Recipients		Reject	

Edit Order... Export RAT... Delete

IDNドメインを使用してホストアクセステーブル(HAT)送信者グループを設定するには、[Mail policies] -> [HAT Overview] -> [Add new Sender group] -> [Submit and add senders with IDN hostname] -> [Submit] -> [Commit]に移動します

## Sender Group: IDN\_Support - Incoming

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): <i>For IP lookups only</i>	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: ?

Find

### Sender List: Display All Items in List

Items per page 20

Add Sender...

Sender	Comment	All <input type="checkbox"/> Delete
जीमेल.कोम	idn sender	<input type="checkbox"/>

<< Back to HAT Overview

Delete

注 : 同じプロセスに従って、任意の送信者グループを編集し、IDNドメインを追加できます。

## 受信/送信メールポリシー – 送信者/受信者

IDNを処理するように受信メールポリシーを構成するには、[メールポリシー] -> [ポリシーの追加] -> [ポリシー名の提供] -> [ユーザの追加]に移動します

[送信者/受信者の両方]でIDNドメインを使用するか、任意の組み合わせを -> [送信] -> [コミット]を選択できます

# 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:

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

Any Recipient

Following Recipients

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

Cisco Security Awareness not configured.

LDAP Group:

Query: LDAP.group

Group:

LDAP Group:

Query: LDAP.group

Group:

Following Recipients are Not

Email Address:

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

LDAP Group:

Query: LDAP.group

Group:

Cancel

OK

## Add Incoming Mail Policy

Mode —Cluster: ESA\_BETA\_CLUSTER Change Mode...

Centralized Management Options

**Add Policy**

Policy Name:   
(e.g. my IT policy)

Insert Before Policy:

**Users**

Sender	Recipients	Edit:	Delete
@example.com	example@example.com	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

注：送信メールポリシーの同じプロセスに従うことができます。

## 例外テーブル

IDNドメイン名を例外テーブルに追加するには、

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

## Add Sender Verification Exception

Mode —Cluster: ESA\_BETA\_CLUSTER Change Mode...

Centralized Management Options

**Sender Verification Exception**

Exception:   
(e.g.: user@example.com, user@, @example.com, @.example.com, @[1.2.3.4])

Order:  (of 1)

Behavior:  Allow  
 Reject

SMTP Code:

SMTP Text:





## Address Lists

Mode — Cluster: **ESA\_BETA\_CLUSTER** Change Mode...

▶ Centralized Management Options

### Address Lists

Add Address List...

Address List Name	Description	Used for	Addresses	All <input type="checkbox"/> Delete
IDN-Support	IDN-Support-test		(3) ಅಭ್ಯಾಸ@ಯಾಹೂ.ಒಂ, @ಜೀಮೆಲ.ಕೊಂ,...	<input type="checkbox"/>

Delete

## 送信先コントロール

IDNドメイン名を宛先制御に追加するには、

[Mail Policies] -> [Destination Controls] -> [Add Destination] -> [IDN Domain name] -> [Submit] -> [Commit] を追加できます

Monitor Mail Policies Security Services Network System Administration

### Add Destination Controls

Mode — Cluster: **ESA\_BETA\_CLUSTER** Change Mode...

▶ Centralized Management Options

#### Destination Controls

Destination:	<input type="text" value="ಜೀಮೆಲ.ಕೊಂ"/>
IP Address Preference:	Default (IPv6 Preferred)
Limits:	Concurrent Connections: <input type="radio"/> Use Default (500) <input checked="" type="radio"/> Maximum of <input type="text" value="500"/> (between 1 and 1,000)
	Maximum Messages Per Connection: <input type="radio"/> Use Default (50) <input checked="" type="radio"/> Maximum of <input type="text" value="50"/> (between 1 and 1,000)
	Recipients: <input checked="" type="radio"/> Use Default (No Limit) <input type="radio"/> Maximum of <input type="text" value="0"/> per <input type="text" value="60"/> minutes <i>Number of recipients between 0 and 1,000,000,000 per number of minutes between 1 and 60</i>
	Apply limits: Per Secure Email hostname: <input checked="" type="radio"/> System Wide <input type="radio"/> Each Virtual Gateway <i>(recommended if Virtual Gateways are in use)</i>
TLS Support:	Default (None)
DANE Support:	<input type="text" value="Default (None)"/>
Bounce Verification:	Perform address tagging: <input checked="" type="radio"/> Default (No) <input type="radio"/> No <input type="radio"/> Yes <i>Applies only if bounce verification address tagging is in use. See Mail Policies &gt; Bounce Verification.</i>
Bounce Profile:	Default

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

Cancel Submit

## Destination Controls

Success — Your changes have been committed.

Mode — Cluster: ESA\_BETA\_CLUSTER

Change Mode...

▸ Centralized Management Options

### Destination Control Table

Items per page 20

Domain ▲	IP Address Preference	Destination Limits	TLS Support	DANE Support ^	Bounce Verification *	Bounce Profile	All <input type="checkbox"/> Delete
doosralab.com	Default	Default connection limit, 50 messages per connection, Default recipient limit	Required	Default	Default	Default	<input type="checkbox"/>
humaaralab.com	Default	Default connection limit, 50 messages per connection, Default recipient limit	Required	Default	Default	Default	<input type="checkbox"/>
जिमेिल.कोम	Default	500 concurrent connections, 50 messages per connection, Default recipient limit	Default	Default	Default	Default	<input type="checkbox"/>
Default	IPv6 Preferred	500 concurrent connections, 50 messages per connection, No recipient limit	None	None	Off	Default	

[Add Destination...](#) [Import Table](#) [Export Table](#) [Delete](#)

\* Bounce Verification settings apply only if bounce verification address tagging is in use. See Mail Policies > Bounce Verification.  
^ DANE will not be enforced for domains that have SMTP Routes configured.

### Global Settings

Certificate:	Client-Cert
Send an alert when a required TLS connection fails:	Enabled

[Edit Global Settings...](#)

## バウンスプロファイル

バウンスメッセージおよび警告メッセージの受信者は、[バウンスプロファイル(Bounce Profiles)]でIDNドメイン名を使用して設定できます。

[Network] -> [Bounce Profiles] -> [Add Bounce Profile] -> [Enter name] -> [Configure the values for bounce Profile] -> [For Recipient for Bounce and Warning Messages] -> [Select Alternate address] に移動し、IDNドメインアドレスを使用できます。

Monitor Mail Policies Security Services Network System Administration

## Add Bounce Profile

Mode — Cluster: ESA\_BETA\_CLUSTER Change Mode...

Centralized Management Options

### Add Bounce Profile

Profile Name:

Maximum Number of Retries:  (between 0 and 10000)

Maximum Time in Queue:  seconds (between 0 and 3000000)

Initial Time to Wait per Message:  seconds (between 60 and 86400)

Maximum Time to Wait per Message:  seconds (between 60 and 86400)

Hard Bounce and Delay Warning Messages: Send Hard Bounce Messages:

Use Default (Yes)  Yes  No

Use DSN format for bounce messages:

Use Default (Yes)  Yes  No

Message Composition

Message Subject:

Parse DSN "Status" field from bounce responses:  Use Default (No)  Yes  No

Notification Template: Bounce Notification Template can be defined at Mail Policies > Text Resources.

Message Language	Template	Preview	Delete
Default	System Generated		

[Add Row](#)

Send Delay Warning Messages:

Use Default (No)  Yes  No

Message Composition

Message Subject:

Notification Template: Bounce Notification Template can be defined at Mail Policies > Text Resources.

Message Language	Template	Preview	Delete
Default	System Generated		

[Add Row](#)

Minimum Interval Between Messages:  seconds

Maximum Number of Messages to Send:

Recipient for Bounce and Warning Messages:

Message sender

Alternate:

Use Domain Key Signing for Bounce and Delay Messages:

Use Default (No)  Yes  No

There is no signing profile matching bounce from address MAILER-DAEMON@\_NOTSET\_. Bounce messages will not be signed until you create appropriate signing profile.

[Cancel](#) [Submit](#)

## [LDAP]

図に示すように、IDNドメイン名を使用してLDAP許可/グループクエリを実行できるようになりました。

**Edit User**

Any Sender  
 Following Senders  
 Following Senders are Not

Email Address:  
  
(e.g. user@example.com, user@, @example.com, @.example.com)

LDAP Group:  
Query:

Group:

Any Recipient  
 Following Recipients

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

Cisco Security Awareness not configured.

If one or more conditions match

LDAP Group:  
Query:

Group:

## ローカルスパム検疫

[Local SPM Quarantine]に、ユーザの電子メールアドレス/ドメイン/件名にIDNドメイン名が表示されます

**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  Is

[ Clear Search ] 14 items found Search

**Search Results** Items per page 25

Displaying 1 – 14 of 14 items.

Release Delete

<input type="checkbox"/>	From	Envelope Recipient	To	Subject	Date	Size
<input type="checkbox"/>		anvitha@doosralab.com		[SUSPICIOUS MESSAGE] this is to test policy	10 Feb 2021 16:30 (GMT -06:00)	3.6K
<input type="checkbox"/>		अनञ्जलिता2@जीमेल.कॉम		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 21:49 (GMT -06:00)	7.3K
<input type="checkbox"/>		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
<input type="checkbox"/>		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
<input type="checkbox"/>		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
<input type="checkbox"/>		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
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries .	09 Feb 2021 17:02 (GMT -06:00)	4.7K
<input type="checkbox"/>		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
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very ಮಾಡುತ್ತಿದ್ದಾರೆ ಎಂದು ಭಾವಿಸುತ್ತೇವೆ for both the countries.	09 Feb 2021 16:54 (GMT -06:00)	5.2K
<input type="checkbox"/>		anvitha@doosralab.com		this is a test	09 Feb 2021 16:01 (GMT -06:00)	3.3K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries .	09 Feb 2021 15:49 (GMT -06:00)	8.1K
<input type="checkbox"/>		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
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very आशा for both the countries.	08 Feb 2021 21:53 (GMT -06:00)	5.0K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very आशा for both the countries.	08 Feb 2021 21:47 (GMT -06:00)	3.9K

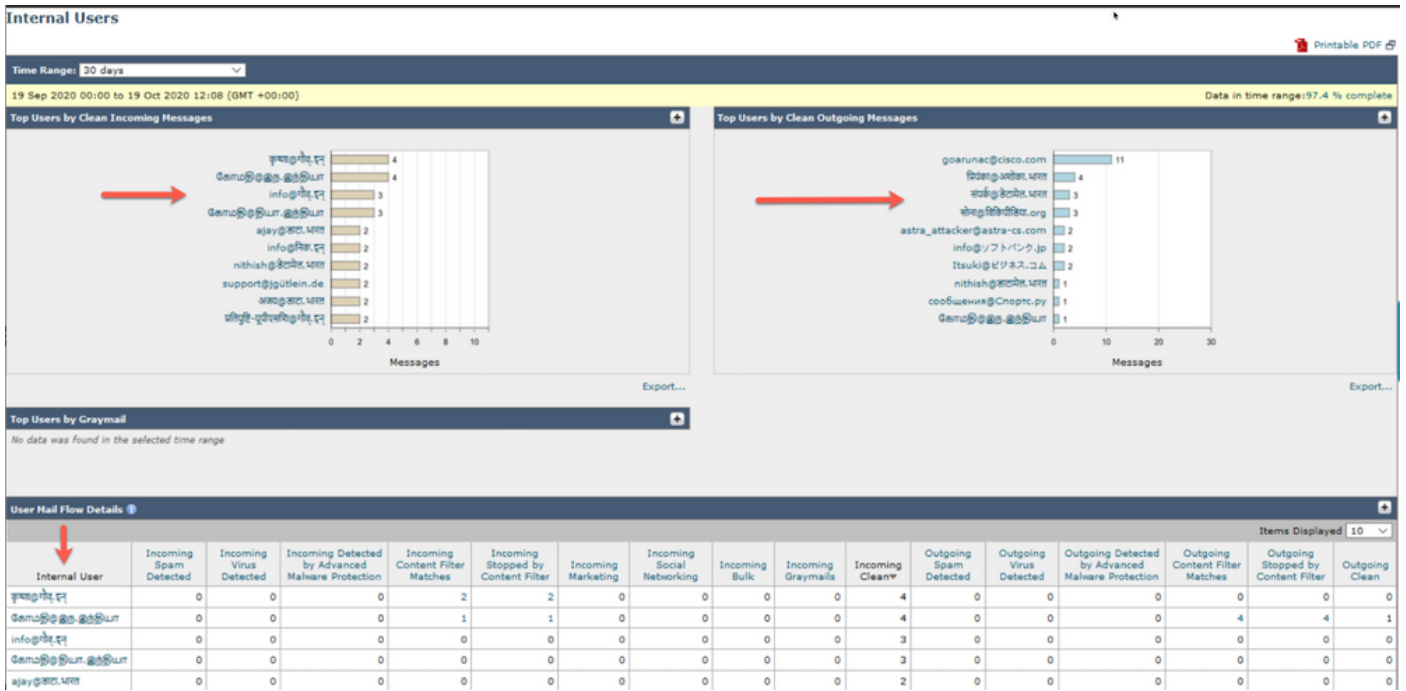
Release Delete

注 : ローカルPVO検査は、スパム検査と同様の動作を示します。

## 検証とトラブルシューティング

1) ESAおよびSMA(Secure Email and Web Manager)のレポートでIDNがサポートされるようになりました。レポートでは、ユーザ名/ドメイン/電子メールアドレスをIDN形式で確認できます

[Monitor] -> [Internal Users]に移動します。



2) [Message Tracking] で、IDNドメイン名を確認し、IDNドメイン/ユーザ名/電子メールアドレスでフィルタリングできます

**Search**

Available Time Range: 16 Jun 2020 18:00 to 12 Feb 2021 08:19 (GMT -06:00) Data in time range: 87.98% complete

Envelope Sender:   (Red arrow points to this field)

Envelope Recipient:

Subject:

Message Received:  Last Day  Last Week  Custom Range

Start Date:  Time:  and End Date:  Time:  (GMT -06:00)

Search messages using advanced criteria

Generated: 12 Feb 2021 08:21 (GMT -06:00) Export All... | Export..

**Results** Items per page 20

Displaying 1 – 15 of 15 items.

1	11 Feb 2021 13:42:13 (GMT -06:00)	MID: 23579661	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: <b>anvitha@యాకూ.బి.లతే</b> (Red arrow points to this field)				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very [redacted]				
LAST STATE: Message 23579661 to anvitha@humaaralab.com received remote SMTP respons:				
2	11 Feb 2021 10:13:55 (GMT -06:00)	MID: 23579651	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: <b>anvitha@యాకూ.బి.లతే</b>				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very [redacted]				
LAST STATE: Message 23579651 to anvitha@humaaralab.com received remote SMTP respons:				
3	09 Feb 2021 17:09:49 (GMT -06:00)	MID: 23570342	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: <b>anvitha@యాకూ.బి.లతే</b>				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: <b>Please read as this is very [redacted]</b>				
LAST STATE: A new message 23570347 was generated to handle bounce of message 235703-				
4	09 Feb 2021 16:59:11 (GMT -06:00)	MID: 23570318	HOST: ESA1-EFT (10.0.202.17)	Show Details

3) CLICOMANDgrepまたはtailを使用して「mail\_logs」を表示し、ログにIDNドメインを表示します



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/dcIPBUOdxB48=

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

## 関連情報

- [Cisco E メール セキュリティ アプライアンス : エンドユーザ ガイド](#)
- [テクニカル サポートとドキュメント - Cisco Systems](#)