



通知エンドポイントの設定

- [通知エンドポイントについて \(1 ページ\)](#)
- [通知エンドポイントの設定 \(2 ページ\)](#)
- [エンドポイントの確認コードの再送信 \(5 ページ\)](#)
- [通知メッセージの例 \(5 ページ\)](#)

通知エンドポイントについて

ポリシーの作成中に、ポリシー内のルールに違反した場合にアラーム通知を受信する複数のエンドポイントを設定できます。

次の通知エンドポイントタイプを使用できます。

- E メール
- Google ストレージ
- Amazon S3
- SMS
- Slack
- WebEx
- Microsoft Teams
- PagerDuty

エンドポイント通知の内容

アラーム通知情報の内容と配信は、エンドポイントの通知タイプによって異なります。通知メッセージに含まれる情報のタイプは、Raw データまたは要約データに分類されます。

生データ (Raw Data)

Amazon S3 と Google ストレージの通知エンドポイントの場合、情報は未加工の形式で一連の JSON (JavaScript Object Notation) オブジェクトとして提供されます。JSON オブジェクトは、システムに表示されるアラーム通知イベントを表します。これらのイベントは、現在の時間枠

(現在の1分間など)に対応するオブジェクトとして、設定されたS3とクラウドストレージのバケットに書き込まれます。指定した時間帯に配信されたイベントがない場合、JSONオブジェクトは書き込まれません。[アラームタイプ別 Amazon S3 と Google ストレージのエンドポイント通知の例 \(7 ページ\)](#) の例を参考にしてください。

要約データ


メッセージには、一定期間に発生したイベントの要約が含まれます。通常、メッセージには、アラーム遷移イベントの総数、最初のいくつかのイベントからの特定のアラームの詳細、およびその他のイベントを表示するためのリンクが含まれます。表示される正確な形式とアラームの詳細は、エンドポイントタイプと、対応するメッセージサイズの制約によって異なります(たとえば、SMSエンドポイントでは総数を表示するスペースしかないため、特定のアラームの詳細は含まれません)。

エラー処理

エンドポイントが通知の受信に失敗した場合は、成功するか、通知がシステムに存在しなくなるまで、Crosswork Cloud は通知の配信を試みます。後者の場合、通知エンドポイントは配信されません。

通知エンドポイントの設定

ポリシー内のルールに違反した場合に通知を受信するエンドポイントを設定できます。ポリシーを作成するときに、ポリシーに含まれる各ルールのエンドポイントを指定できます。エンドポイントはいつでも設定できます。これにより、次の手順で説明するように、選択可能なエンドポイントのリストが作成されます。

ステップ1 メインウィンドウで、 > [グローバル (Global)] > [通知 (Notifications)] をクリックします。

ステップ2 ページ上部のオプションのいずれかをクリックして、作成するエンドポイントのタイプを選択します。

- E メール
- Google ストレージ (「[Google ストレージエンドポイントの設定 \(3 ページ\)](#)」を参照)
- Amazon S3
- Slack
- SMS
- WebEx (「[Webex エンドポイントの設定 \(4 ページ\)](#)」を参照)
- Microsoft Teams
- PagerDuty

(注) [通知メッセージの例 \(5 ページ\)](#) も参照してください。

ステップ3 [typeのエンドポイントの追加 (Add type Endpoint)] をクリックします。

ステップ4 エンドポイントの名前を入力します。

ステップ5 エンドポイントが [有効 (Enabled)] (デフォルト) か [無効 (Disabled)] かを選択します。

ステップ6 ステップ2 で選択したエンドポイントタイプに必要な情報を入力します。

ステップ7 (任意) メモを入力します。

ステップ8 [保存 (Save)] をクリックします。

ステップ9 Crosswork Cloud から確認コードを受信したら、[確認コード (Verification Code)] フィールドにコードを入力し、[確認 (Verify)] をクリックします。


[今はスキップ (Skip for Now)] を選択すると、Crosswork Cloud はエンドポイントが作成しますが、確認コードを入力してエンドポイントを確認するまで、エンドポイントに通知は送信されません。

Google ストレージエンドポイントの設定

Crosswork Cloudを設定して、通知ログを Google Cloud Storage に送信するようにすることもできます。

始める前に

- Google Cloud Storage アカウントと、すべてのアラーム通知情報の送信先となる既存の [Cloud Storage バケット](#) が必要です。
- Google Cloud Storage バケットに対する Crosswork Cloud のアクセスを許可するには、[サービスアカウントキー](#) ファイル (JSON 形式) を作成してください。このファイルは、Google ストレージの通知エンドポイント設定の一部としてアップロードする必要があります。

ステップ1 Crosswork Cloudで、 > [グローバル (Global)] > [通知 (Notifications)] > [Google ストレージ (Google Storage)] タブの順にクリックし、[Google ストレージエンドポイントの追加 (Add Google Storage Endpoint)] をクリックします。

ステップ2 次の手順を実行します。

- a) 通知の名前を入力します。
- b) オプションを [有効 (ENABLED)] に切り替えます。
- c) Google Cloud Storage バケットの名前を入力します。
- d) 通知ログを保存するバケット内に特定のフォルダがある場合は、パスを入力します。
- e) Google Cloud Storage へのアクセスを可能にする JSON キーファイルをアップロードします。

ステップ3 [保存 (Save)] をクリックします。

Google Cloud Storage バケット内のファイルの場所とプロパティの例：

Buckets > gcp-stor-staging > notifications_bdd92688-659b-462e-8ce0-ee31df2b49fa_ [redacted]

LIVE OBJECT VERSION HISTORY

[DOWNLOAD](#) [EDIT METADATA](#) [EDIT ACCESS](#) [DELETE](#)

Overview	
Type	text/plain; charset=utf-8
Size	73 KB
Created	Jun 30, 2023, 12:32:15 PM
Last modified	Jun 30, 2023, 12:32:15 PM
Storage class	Standard
Custom time	—
Public URL	Not applicable
Authenticated URL	https://storage.cloud.google.com/gcp-stor-staging/notifications_bdd92688-659b-462e-8ce0-ee31df2b49fa_ [redacted]
gsutil URI	gs://gcp-stor-staging/notifications_bdd92688-659b-462e-8ce0-ee31df2b49fa_ [redacted]
Permissions	
Public access	Not public
Protection	
Version history	—
Retention policy	None
Hold status	None
Encryption type	Google-managed

(注) ログファイルの内容の例については、[アラームタイプ別 Amazon S3 と Google ストレージのエンドポイント通知の例 \(7 ページ\)](#) を参照してください。


Webex エンドポイントの設定

Webex スペースに通知を送信するように、Crosswork Cloud を設定できます。この手順では、ウェブフックを作成し、UI で通知エンドポイントを設定する方法について説明します。

始める前に

apphub.webex.com アカウントを持ち、ウェブフックを作成する Webex スペース (ルーム) のメンバーである必要があります。

- ステップ 1 <https://apphub.webex.com> にログインします。
- ステップ 2 [着信ウェブフック (Incoming Webhooks)] を検索します。[着信ウェブフック (Incoming Webhooks)] アプリケーションが一覧表示されます。
- ステップ 3 [着信ウェブフック (Incoming Webhooks)] アプリケーションをクリックします。
- ステップ 4 [着信ウェブフック (Incoming Webhooks)] ページで、[接続 (Connect)] をクリックします。
- ステップ 5 複数の項目に対する権限を要求するウィンドウが表示され、同意する場合は、[同意 (Accept)] をクリックします。
- ステップ 6 ページを下にスクロールし、表示されたスペースに新しいウェブフック名を入力し、ドロップダウンリストから Webex スペースを選択します。

- ステップ 7** [追加 (Add)] をクリックします。[ウェブフック URL (Webhook URL)] フィールドに値が入力されません。
- ステップ 8** 後で使用するために、新しく作成したウェブフック URL をコピーします。
- ステップ 9** Crosswork Cloudで、 > [グローバル (Global)] > [通知 (Notifications)] をクリックします。
- ステップ 10** [Webex] を選択し、[Webexエンドポイントの作成 (Create Webex Endpoint)] をクリックします。
- ステップ 11** エンドポイントの名前を入力します。
- ステップ 12** [ウェブフック URL (Webhook URL)] フィールドに、前にコピーしたウェブフック URL を貼り付けます。
- ```
https://webexapis.com/v1/webhooks/incoming/<new_webhook_ID>
```
- ステップ 13** [保存 (Save)] をクリックします。
- 新しいエンドポイントを設定したことを示す通知を Webex スペースで受信します。
- ステップ 14** エンドポイントを確認すると、エンドポイントがアクティブ状態に変わり、新しい通知を処理します。

## エンドポイントの確認コードの再送信

Crosswork Cloud Network Insights からの通知を受信するようにエンドポイントを設定したら、最初に確認コードを入力してエンドポイントを確認する必要があります。次の手順に従って、確認コードを再送信できます。

- ステップ 1** メインウィンドウで、[外部ルーティング分析 (External Routing Analytics)] > [設定 (Configure)] > [通知エンドポイント (Notification Endpoints)] の順にクリックします。
- ステップ 2** 以前に入力したエンドポイントの名前をクリックします。
- ステップ 3** [確認 (Verify)] をクリックします。
- Crosswork Cloud Network Insights が確認コードを再送信します。
- ステップ 4** Crosswork Cloud Network Insights から確認コードを受信したら、[確認コード (Verification Code)] フィールドにコードを入力し、[確認 (Verify)] をクリックします。

## 通知メッセージの例

通知エンドポイントを設定すると、Crosswork Cloud Network Insights は指定したエンドポイントに通知メッセージを送信します。次の例は、各エンドポイントタイプのサンプルメッセージを示しています。

## 電子メールのエンドポイント通知の例

通知エンドポイントを設定し、タイプを [電子メール (Email)] に指定すると、アラーム条件が満たされた場合に、Crosswork Cloud Network Insights は次の例のような電子メールメッセージを送信します。

```
You are subscribed to alarm notifications for crosswork.cisco.com.

There is 1 alarm transition event for AutomationOnly8 organization.
=====

08 - AS Path Length Violation
=====
Rule: AS Path Length Violation
Alarm Details: https://crosswork.cisco.com/#/extRoute/alarm/00db6966-9bf2-441b-b940-8259b7f8131a
Expected Prefix: 84.205.80.0/24
Priority: High
Condition: Active
State: ACTIVE
Last Activated: 2021-09-30 23:18:35 UTC
Last Deactivated: 2021-09-30 23:15:20 UTC
Expected Minimum Path Length: 1
Expected Maximum Path Length: 2
Activate Peer Threshold Count: 2
Observed Min AS-PATH: 3
Observed Max AS-PATH: 8
Reporting Peers Count: 21
Tags: common tag | prefix policy | 08 - AS Path Length Violation

=====

To change your notification settings, please log in to https://crosswork.cisco.com.
```

## スラックのエンドポイント通知の例

通知エンドポイントを設定し、タイプに [Slack] を指定すると、アラーム条件が満たされたときに、Crosswork Cloud Network Insights は次の例のような Slack メッセージを送信します。

```
You are subscribed to alarm notifications for crosswork.cisco.com.
There is 1 alarm transition event for AutomationOnly8 organization.
=====
Policy: 08 - AS Path Length Violation, Rule: AS Path Length Violation, Alarm
Details: https://crosswork.cisco.com/#/extRoute/alarm/00db6966-9bf2-441b-b940-8259b7f8131a, Expected Prefix: 84.205.80.0/24,
Priority: High, Condition: Active, State: ACTIVE, Last Activated: 2021-09-30 23:18:35 UTC, Last Deactivated: 2021-09-30 23:15:20 UT
Expected Minimum Path Length: 1, Expected Maximum Path Length: 2, Activate Peer Threshold Count: 2, Observed Min AS-PATH:
Observed Max AS-PATH: 8, Reporting Peers Count: 21
Tags: common tag | prefix policy | 08 - AS Path Length Violation
=====

To change your notification settings, please log in to https://crosswork.cisco.com.
```

## Microsoft Teams のエンドポイント通知の例

通知エンドポイントを設定し、タイプに [Microsoft Teams] を指定すると、アラーム条件が満たされたときに、Crosswork Cloud Network Insights は次の例のようなメッセージを送信します。

```
You are subscribed to alarm notifications for crosswork.cisco.com.
There is 1 alarm transition event for AutomationOnly8 organization.
```

```
Policy: 08 - AS Path Length Violation, Rule: AS Path Length Violation, Alarm
Details: https://crosswork.cisco.com/#/extRoute/alarm/00db6966-9bf2-441b-b940-8259b7f8131a, Expected Prefix: 84.205.80.0/24,
Priority: High, Condition: Active, State: ACTIVE, Last Activated: 2021-09-30 23:18:35 UTC, Last Deactivated: 2021-09-30 23:15:20 UTC,
Expected Minimum Path Length: 1, Expected Maximum Path Length: 2, Activate Peer Threshold Count: 2, Observed Min AS-PATH: 3,
Observed Max AS-PATH: 8, Reporting Peers Count: 21
Tags: common tag | prefix policy | 08 - AS Path Length Violation
```

```
=====
To change your notification settings, please log in to https://crosswork.cisco.com.
```

## Cisco Webex のエンドポイント通知の例

通知エンドポイントを設定し、タイプに [Webex] を指定すると、アラーム条件が満たされたときに、Crosswork Cloud は次の例のような Webex メッセージを送信します。

```
You are subscribed to alarm notifications for crosswork.cisco.com.
There is 1 alarm transition event for AutomationOnly8 organization.
```

```
=====
Policy: 08 - AS Path Length Violation, Rule: AS Path Length Violation, Alarm
Details: https://crosswork.cisco.com/#/extRoute/alarm/00db6966-9bf2-441b-b940-8259b7f8131a, Expected Prefix: 84.205.80.0/24,
Priority: High, Condition: Active, State: ACTIVE, Last Activated: 2021-09-30 23:18:35 UTC, Last Deactivated: 2021-09-30 23:15:20 UTC,
Expected Minimum Path Length: 1, Expected Maximum Path Length: 2, Activate Peer Threshold Count: 2, Observed Min AS-PATH: 3,
Observed Max AS-PATH: 8, Reporting Peers Count: 21
Tags: common tag | prefix policy | 08 - AS Path Length Violation
```

```
=====
To change your notification settings, please log in to https://crosswork.cisco.com.
```

## アラームタイプ別 Amazon S3 と Google ストレージのエンドポイント通知の例

次のセクションでは、各アラームタイプの Amazon S3 と Google ストレージの通知ログメッセージの例を示します。

### AS 発信元違反の例

次に、AS 発信元違反アラームに関する Amazon S3 と Google ストレージの通知ログメッセージ例を示します。

```
{
 "activatedAt": "2023-02-04T03:02:19Z",
 "alarmId": "04aa5831-7e62-45cb-a123-3d5e9c019330",
```

```
"clearedAt": "2023-02-04T03:01:41Z",
"expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "originAsns": [
 1523
]
},
"monitoredPrefix": "31.1.1.0/24",
"observed": {
 "allViolationPeers": [
 {
 "asn": 6008,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 21
 },
 {
 "asn": 6009,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 22
 },
 {
 "asn": 6005,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 6007,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 20
 },
 {
 "asn": 6002,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 6004,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asn": 6001,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 6000,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 },
 {
 "asn": 6006,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 19
 },
 {
 "asn": 6003,
 "at": "2023-02-04T03:00:58Z",

```



```
 "peerId": 3,
 "peerIp": "10.11.12.3"
 }
],
 "allViolationPeersCount": 10
 },
 "orgName": "AutomationOnly5",
 "policyId": "963b86db-329d-4cba-a38a-3fc19ddd330d",
 "policyName": "02 - AS Origin Violation",
 "rule": "ALARM_RULE_AS_ORIGIN_VIOLATION",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "prefix policy",
 "02 - AS Origin Violation"
],
 "transitionedAt": "2023-02-04T03:02:19Z"
}
{
 "activatedAt": "2023-02-04T03:02:19Z",
 "alarmId": "9ea271fb-1976-450f-b653-d3d188426b6e",
 "clearedAt": "2023-02-04T03:01:42Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "originAsns": [
 1523
]
 },
 "monitoredPrefix": "2002:1f01:100::/48",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 6009,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 30
 },
 {
 "asn": 6004,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 25
 },
 {
 "asn": 6001,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 23
 },
 {
 "asn": 6006,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 27
 },
 {
 "asn": 6000,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 },
 {
 "asn": 6003,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 24
 }
]
 }
}
```

```

 {
 "asn": 6005,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 26
 },
 {
 "asn": 6008,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 29
 },
 {
 "asn": 6007,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 28
 },
 {
 "asn": 6011,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 32
 },
 {
 "asn": 6002,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asn": 6010,
 "at": "2023-02-04T03:00:58Z",
 "peerId": 31
 }
],
 "allViolationPeersCount": 12
},
"orgName": "AutomationOnly5",
"policyId": "963b86db-329d-4cba-a38a-3fc19ddd330d",
"policyName": "02 - AS Origin Violation",
"rule": "ALARM_RULE_AS_ORIGIN_VIOLATION",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "02 - AS Origin Violation"
],
"transitionedAt": "2023-02-04T03:02:19Z"
}

```

## AS パス長違反の例

次に、**AS パス長違反**アラームに関する Amazon S3 と Google ストレージの通知ログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:09:32Z",
 "alarmId": "38a07db7-776e-4b4a-a186-b7d4bd9b045c",
 "clearedAt": "2023-02-04T03:08:53Z",
 "expected": {
 "maxAsPathLength": 2,
 "minAsPathLength": 1,
 "numPeersToClear": 1,
 "numPeersToTrigger": 2
 },
}

```

```
"monitoredPrefix": "145.25.0.0/16",
"observed": {
 "allViolationPeers": [
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 19
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 20
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 21
 },
 {
 "asPath": [
 902,
 602,
```

```

 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 22
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 }
],
 "allViolationPeersCount": 10
},
"orgName": "AutomationOnly5",
"policyId": "bc4298d2-1a52-4339-83e8-1d8932e1fe61",
"policyName": "03 - AS Path Length Violation",
"rule": "ALARM_RULE_AS_PATH_LENGTH_VIOLATION",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",

```

```
"tags": [
 "common tag",
 "prefix policy",
 "03 - AS Path Length Violation"
],
"transitionedAt": "2023-02-04T03:09:32Z"
}
{
 "activatedAt": "2023-02-04T03:09:32Z",
 "alarmId": "e44e6834-7877-435c-9068-169e56cae5aa",
 "clearedAt": "2023-02-04T03:08:53Z",
 "expected": {
 "maxAsPathLength": 2,
 "minAsPathLength": 1,
 "numPeersToClear": 1,
 "numPeersToTrigger": 2
 },
 "monitoredPrefix": "2002:9119::/48",
 "observed": {
 "allViolationPeers": [
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 23
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 24
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 25
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 26
 }
]
 }
}
```

```
{
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 27
},
{
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 28
},
{
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 29
},
{
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 30
},
{
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 31
},
{
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",

```

```

 "peerId": 32
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asPath": [
 902,
 602,
 22
],
 "asPathLength": 3,
 "asn": 22,
 "at": "2023-02-04T03:06:32Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 }
],
 "allViolationPeersCount": 12
 },
 "orgName": "AutomationOnly5",
 "policyId": "bc4298d2-1a52-4339-83e8-1d8932e1fe61",
 "policyName": "03 - AS Path Length Violation",
 "rule": "ALARM_RULE_AS_PATH_LENGTH_VIOLATION",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "prefix policy",
 "03 - AS Path Length Violation"
],
 "transitionedAt": "2023-02-04T03:09:32Z"
}

```

## DNS ルートサーバーの取り消しの例

次に、DNS ルートサーバーの取り消しアラームに関する Amazon S3 と Google ストレージの通知ログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T06:16:17Z",
 "alarmId": "5161f679-8e4e-4b95-a979-1788b3444136",
 "monitoredPeer": {
 "peerIp": "2000::30:100:10",
 "peerName": "Root DNS IPv6",
 "sessionId": "9b3f0207-a484-465b-886b-0c8bbcefb8bc"
 },
 "observed": {
 "withdrawnPrefix": "2001:503:ba3e::/48"
 },
 "orgName": "AutomationOnly5",
 "policyId": "3fb1473d-a1cb-43f2-b232-6a3cb470051b",
 "policyName": "20 - DNS Root Server Withdrawal",
 "rule": "ALARM_RULE_DNS_ROOT_SERVER_WITHDRAWAL",
}

```

```

 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "transitionedAt": "2023-02-04T06:16:17Z"
 }
 {
 "activatedAt": "2023-02-04T06:16:17Z",
 "alarmId": "b87dc535-7151-4728-90f2-0b24b979d4b8",
 "monitoredPeer": {
 "peerIp": "10.31.32.1",
 "peerName": "Root DNS IPv4",
 "sessionId": "c5dcf2d2-99b7-4565-8b29-9b30f20ed2f7"
 },
 "observed": {
 "withdrawnPrefix": "198.41.0.0/24"
 },
 "orgName": "AutomationOnly5",
 "policyId": "3fb1473d-a1cb-43f2-b232-6a3cb470051b",
 "policyName": "20 - DNS Root Server Withdrawal",
 "rule": "ALARM_RULE_DNS_ROOT_SERVER_WITHDRAWAL",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "transitionedAt": "2023-02-04T06:16:17Z"
 }
}

```

## 新しい AS パスのエッジの例

次に、新しい AS パスのエッジアラームに関する Amazon S3 通知と Google ストレージのログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:11:17Z",
 "alarmId": "4b9eb669-774d-4a6d-bed5-d559248953e8",
 "expected": {
 "numPeersToTrigger": 1
 },
 "monitoredPrefix": "88.88.109.0/24",
 "observed": {
 "allViolationPeers": [
 {
 "asPath": [
 916,
 700,
 620,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 1,
 "peerIp": "10.11.12.1",
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 620
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 }
]
 }
]
 }
}

```



```
 },
 {
 "edgeId": {
 "fromAs": 620,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 621,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 19,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 621
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
],
 {
 "edgeId": {
 "fromAs": 621,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 619,
 36
]
}
```

```

],
"asn": 36,
"at": "2023-02-04T01:34:59Z",
"peerId": 2,
"peerIp": "10.11.12.2",
"suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 619
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 },
 {
 "edgeId": {
 "fromAs": 619,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 622,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 20,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 622
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 622,

```

```
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 623,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 21,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 623
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 }
],
 {
 "edgeId": {
 "fromAs": 623,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 624,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 22,
```

```
"suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 624
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 624,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
],
{
 "asPath": [
 916,
 700,
 618,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 3,
 "peerIp": "10.11.12.3",
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 618
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 618,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 }
]
}
```

```
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
}
},
{
 "asPath": [
 916,
 700,
 617,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 4,
 "peerIp": "10.11.12.4",
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 617
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 617,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 616,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 5,
 "peerIp": "10.11.12.5",
 "suspiciousEdges": [
 {
```

```

 "edgeId": {
 "fromAs": 36,
 "toAs": 616
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 616,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 615,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 7,
 "peerIp": "10.31.32.1",
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 615
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
],
 {
 "edgeId": {
 "fromAs": 615,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 }
}

```

```

 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
}
],
"allViolationPeersCount": 10
},
"orgName": "AutomationOnly5",
"policyId": "3755ed13-6498-4cc6-9798-a1264d03b402",
"policyName": "04 - New AS Path Edge",
"rule": "ALARM_RULE_NEW_AS_PATH_EDGE",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "04 - New AS Path Edge"
],
"transitionedAt": "2023-02-04T03:11:17Z"
}
{
"activatedAt": "2023-02-04T03:11:17Z",
"alarmId": "9a1ab970-144b-4256-a864-4eb26e698844",
"expected": {
 "numPeersToTrigger": 1
},
"monitoredPrefix": "2002:5858:6d00::/48",
"observed": {
 "allViolationPeers": [
 {
 "asPath": [
 916,
 700,
 616,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 23,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 616
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
],
 {
 "edgeId": {
 "fromAs": 616,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 }
]
 }
}

```

```

 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 }
}
},
{
 "asPath": [
 916,
 700,
 618,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 24,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 618
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 618,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 619,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 25,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,

```



```
 "toAs": 619
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 },
 {
 "edgeId": {
 "fromAs": 619,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 620,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 26,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 620
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 }
],
 {
 "edgeId": {
 "fromAs": 620,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
}
```

```

]
 }
}
},
{
 "asPath": [
 916,
 700,
 621,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 27,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 621
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 621,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 622,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 28,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 622
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,

```

```
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 622,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 623,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 29,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 623
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "2002:5858:6d00::/48",
 "88.88.109.0/24"
]
 },
 {
 "edgeId": {
 "fromAs": 623,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
}
],
{
```

```
"asPath": [
 916,
 700,
 624,
 36
],
"asn": 36,
"at": "2023-02-04T01:34:59Z",
"peerId": 30,
"suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 624
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 624,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
]
},
{
 "asPath": [
 916,
 700,
 625,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 31,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 625
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 1,
 "prefixCount": 1,
 "prefixList": [
 "2002:5858:6d00::/48"
]
 }
],
}
```

```
{
 "edgeId": {
 "fromAs": 625,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 1,
 "prefixCount": 1,
 "prefixList": [
 "2002:5858:6d00::/48"
]
}
],
{
 "asPath": [
 916,
 700,
 626,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 32,
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 626
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 1,
 "prefixCount": 1,
 "prefixList": [
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 626,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 1,
 "prefixCount": 1,
 "prefixList": [
 "2002:5858:6d00::/48"
]
 }
]
}
],
{
 "asPath": [
 916,
 700,
 617,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 6,
```

```

"peerIp": "2000::20:100:10",
"suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 617
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 617,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
],
{
 "asPath": [
 916,
 700,
 615,
 36
],
 "asn": 36,
 "at": "2023-02-04T01:34:59Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10",
 "suspiciousEdges": [
 {
 "edgeId": {
 "fromAs": 36,
 "toAs": 615
 },
 "firstSeen": "2023-02-04T01:34:59Z",
 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 },
 {
 "edgeId": {
 "fromAs": 615,
 "toAs": 700
 },
 "firstSeen": "2023-02-04T01:34:59Z",

```

```

 "lastSeen": "2023-02-04T01:34:59Z",
 "peerCount": 2,
 "prefixCount": 2,
 "prefixList": [
 "88.88.109.0/24",
 "2002:5858:6d00::/48"
]
 }
}
],
"allViolationPeersCount": 12
},
"orgName": "AutomationOnly5",
"policyId": "3755ed13-6498-4cc6-9798-a1264d03b402",
"policyName": "04 - New AS Path Edge",
"rule": "ALARM_RULE_NEW_AS_PATH_EDGE",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "04 - New AS Path Edge"
],
"transitionedAt": "2023-02-04T03:11:17Z"
}

```

## 親集約の変更例

次に、**親集約変更**アラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T05:23:55Z",
 "alarmId": "928315c2-c804-47dc-bc52-e2282e605753",
 "expected": {
 "allowedAggregates": [
 "2002::/16",
 "2002::/17",
 "2002:57e8::/36"
],
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "originAsns": [
 1000
],
 "originAsnsUsage": "ALARM_USAGE_EXCLUDE"
 },
 "monitoredPrefix": "2002:57e8::/48",
 "observed": {
 "allViolationPeers": [
 {
 "peerId": 23
 },
 {
 "peerId": 24
 },
 {
 "peerId": 25
 },
 {
 "peerId": 26
 }
],
 }
}

```

```
{
 "peerId": 27
},
{
 "peerId": 28
},
{
 "peerId": 29
},
{
 "peerId": 30
},
{
 "peerId": 31
},
{
 "peerId": 32
},
{
 "peerId": 6
},
{
 "peerId": 8
}
],
"allViolationPeersCount": 12,
"lastViolationPeers": [
 {
 "asn": 6002,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asn": 6010,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 31
 },
 {
 "asn": 6009,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 30
 },
 {
 "asn": 6003,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 24
 },
 {
 "asn": 6011,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 32
 },
 {
 "asn": 6005,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 26
 },
 {
 "asn": 6007,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 28
 },
 {
```



```
 "asn": 6004,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 25
 },
 {
 "asn": 6006,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 27
 },
 {
 "asn": 6000,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 },
 {
 "asn": 6001,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 23
 },
 {
 "asn": 6008,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 29
 }
],
 "lastViolationPeersCount": 12,
 "lastViolationPrefix": "2002:57e8::/36",
 "violationPrefixesCount": 3
 },
 "orgName": "AutomationOnly5",
 "policyId": "3dd434f4-92fe-447f-b7e8-129b09cff9da",
 "policyName": "17 - Parent Aggregate Change - Test 3",
 "rule": "ALARM_RULE_PARENT_AGGREGATE_CHANGE",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "prefix policy",
 "17 - Parent Aggregate Change"
],
 "transitionedAt": "2023-02-04T05:23:55Z"
}
{
 "activatedAt": "2023-02-04T05:23:55Z",
 "alarmId": "c3d24f64-5814-463e-855f-da56545a621f",
 "expected": {
 "allowedAggregates": [
 "87.232.0.0/22"
],
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "originAsns": [
 1000
],
 "originAsnsUsage": "ALARM_USAGE_EXCLUDE"
 },
 "monitoredPrefix": "87.232.0.0/24",
 "observed": {
 "allViolationPeers": [
 {
 "peerId": 1
 },
 {

```

```
 "peerId": 19
 },
 {
 "peerId": 2
 },
 {
 "peerId": 20
 },
 {
 "peerId": 21
 },
 {
 "peerId": 22
 },
 {
 "peerId": 3
 },
 {
 "peerId": 4
 },
 {
 "peerId": 5
 },
 {
 "peerId": 7
 }
],
"allViolationPeersCount": 10,
"lastViolationPeers": [
 {
 "asn": 6004,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asn": 6008,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 21
 },
 {
 "asn": 6009,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 22
 },
 {
 "asn": 6002,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 6003,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "asn": 6005,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
```

```

 "asn": 6006,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 19
 },
 {
 "asn": 6001,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 6000,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 },
 {
 "asn": 6007,
 "at": "2023-02-04T05:03:37Z",
 "peerId": 20
 }
],
"lastViolationPeersCount": 10,
"lastViolationPrefix": "87.232.0.0/22",
"violationPrefixesCount": 1
},
"orgName": "AutomationOnly5",
"policyId": "3dd434f4-92fe-447f-b7e8-129b09cff9da",
"policyName": "17 - Parent Aggregate Change - Test 3",
"rule": "ALARM_RULE_PARENT_AGGREGATE_CHANGE",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "17 - Parent Aggregate Change"
],
"transitionedAt": "2023-02-04T05:23:55Z"
}

```

## ピアでアドバタイズされたプレフィックス数の例

次に、ピアでアドバタイズされたプレフィックス数アラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T06:18:37Z",
 "alarmId": "139a7983-36ba-4d17-8371-2480290f3799",
 "expected": {
 "prefixCounts": [
 {
 "addressFamily": "ALARM_BGP_AF_IPV4",
 "maxPrefixes": 100,
 "minPrefixes": 10
 }
]
 },
 "monitoredPeer": {
 "ciscoPeerIp": "104.236.154.30",
 "ciscoPeerName": "RS06",
 "peerIp": "10.11.12.1",
 "peerName": "BGP-1",
 "sessionId": "de26c09c-15f6-435f-9044-c9a89fdc7bed"
 }
}

```

```

 },
 "observed": {
 "prefixCounts": [
 {
 "addressFamily": "ALARM_BGP_AF_IPV4",
 "prefixCount": 2000
 }
]
 },
 "orgName": "AutomationOnly5",
 "policyId": "482de3d2-8550-4b84-a0ab-3b3e36f5869a",
 "policyName": "22 - Peer Advertised Prefix Count",
 "rule": "ALARM_RULE_ADVERTISED_PREFIX_COUNT",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "transitionedAt": "2023-02-04T06:18:37Z"
 }
}

```

## ピアの停止の例

次に、ピアの停止アラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T06:17:05Z",
 "alarmId": "b654ced0-5357-4eb7-b3c9-27cbd24a8f65",
 "monitoredPeer": {
 "ciscoPeerIp": "3.21.42.66",
 "ciscoPeerName": "RS95",
 "peerIp": "10.11.12.2",
 "peerName": "BGP-2",
 "sessionId": "29651423-e603-4a11-89b7-37500e40e562"
 },
 "observed": {
 "lastUpdatedAt": "2019-10-03T22:30:00Z"
 },
 "orgName": "AutomationOnly5",
 "policyId": "ff3b620d-33a9-49c0-9e33-b99b53c55b1d",
 "policyName": "21 - Peer Down",
 "rule": "ALARM_RULE_PEER_DOWN",
 "severity": "ALARM_SEVERITY_YELLOW",
 "state": "ALARM_STATE_ACTIVE",
 "transitionedAt": "2023-02-04T06:17:05Z"
}

```

## プレフィックス アドバタイズメントの例

次に、プレフィックス アドバタイズメントアラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:16:25Z",
 "alarmId": "79222047-4954-4b6e-a339-9d01bfb06434",
 "clearedAt": "2023-02-04T03:15:47Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2
 },
 "monitoredPrefix": "218.56.100.0/28",
 "observed": {
 "allViolationPeers": [
 {

```

```
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 19
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 20
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 21
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 22
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 }
],
 "allViolationPeersCount": 10
},
"orgName": "AutomationOnly5",
"policyId": "4d4816b9-e579-4209-a907-8d909aafaf0",
"policyName": "05 - Prefix Advertisement",
"rule": "ALARM_RULE_PREFIX_ADVERTISEMENT",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
```

```
"tags": [
 "common tag",
 "prefix policy",
 "05 - Prefix Advertisement"
],
"transitionedAt": "2023-02-04T03:16:25Z"
}
{
"activatedAt": "2023-02-04T03:16:25Z",
"alarmId": "ba974865-7e94-4623-ad8f-d660acf7d69f",
"clearedAt": "2023-02-04T03:15:47Z",
"expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2
},
"monitoredPrefix": "2002:da38:6400::/48",
"observed": {
 "allViolationPeers": [
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 23
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 24
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 25
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 26
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 27
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 28
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 29
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 30
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 31
 },
 {
```

```

 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 32
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asn": 20,
 "at": "2023-02-04T03:15:04Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 }
],
 "allViolationPeersCount": 12
},
"orgName": "AutomationOnly5",
"policyId": "4d4816b9-e579-4209-a907-8d909aafaf0",
"policyName": "05 - Prefix Advertisement",
"rule": "ALARM_RULE_PREFIX_ADVERTISEMENT",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "05 - Prefix Advertisement"
],
"transitionedAt": "2023-02-04T03:16:25Z"
}

```

## プレフィックス取り消しの例

次に、プレフィックス取り消しアラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:20:36Z",
 "alarmId": "2e12713b-4ecf-4d59-868a-00f07aba47ae",
 "clearedAt": "2023-02-04T03:19:55Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2
 },
 "monitoredPrefix": "100.200.1.0/24",
 "observed": {
 "allViolationPeers": [
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 19
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 20
 }
]
 }
}

```

```

 "at": "2023-02-04T03:19:13Z",
 "peerId": 21
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 22
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 }
],
 "allViolationPeersCount": 9
},
"orgName": "AutomationOnly5",
"policyId": "16105783-75c8-4c98-be71-b0a758645f41",
"policyName": "06 - Prefix Withdrawal",
"rule": "ALARM_RULE_PREFIX_WITHDRAWAL",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "06 - Prefix Withdrawal"
],
"transitionedAt": "2023-02-04T03:20:36Z"
}
{
"activatedAt": "2023-02-04T03:20:36Z",
"alarmId": "3c4cf6e0-e6f2-475d-9030-4bc51a7e0550",
"clearedAt": "2023-02-04T03:19:55Z",
"expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2
},
"monitoredPrefix": "2002:64c8:100::/48",
"observed": {
 "allViolationPeers": [
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 23
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 24
 },
 {
 "at": "2023-02-04T03:19:13Z",

```



```
 "peerId": 25
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 26
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 27
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 28
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 29
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 30
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 31
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 32
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "at": "2023-02-04T03:19:13Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 }
],
 "allViolationPeersCount": 12
},
"orgName": "AutomationOnly5",
"policyId": "16105783-75c8-4c98-be71-b0a758645f41",
"policyName": "06 - Prefix Withdrawal",
"rule": "ALARM_RULE_PREFIX_WITHDRAWAL",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "06 - Prefix Withdrawal"
],
"transitionedAt": "2023-02-04T03:20:36Z"
}
```

## 禁止された IP プレフィックスの例

次に、禁止された IP プレフィックス（フル Bogons）アラームに関する Amazon S3 と Google ストレージの通知ログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T06:11:31Z",
 "alarmId": "a077c6cd-5a74-4378-8d60-e8acb39ae2c7",
 "clearedAt": "2023-02-04T06:09:26Z",
 "monitoredPeer": {
 "ciscoPeerIp": "104.236.154.30",
 "ciscoPeerName": "RS06",
 "peerIp": "10.11.12.5",
 "peerName": "FullBogon-1",
 "sessionId": "f5327ffb-221f-49d6-b8a2-2b812d02d35e"
 },
 "observed": {
 "lastViolationPeerPrefix": {
 "at": "2023-02-04T06:07:33Z",
 "bogonDetails": {
 "bogonType": "ALARM_BOGON_TYPE_FULL_BOGON",
 "prohibitedPrefixBlock": "5.44.248.0/21"
 },
 "prefix": "5.44.248.0/21"
 },
 "violationPrefixesCount": 1
 },
 "orgName": "AutomationOnly5",
 "policyId": "d011c5e4-54a1-41bb-8c7f-963d9caab208",
 "policyName": "19 - Prohibited IP Prefix - FullBogon",
 "rule": "ALARM_RULE_PROHIBITED_IP_PREFIX",
 "severity": "ALARM_SEVERITY_YELLOW",
 "state": "ALARM_STATE_ACTIVE",
 "transitionedAt": "2023-02-04T06:11:31Z"
}
{
 "activatedAt": "2023-02-04T06:11:31Z",
 "alarmId": "142659ed-15f1-4d60-b2d6-3d0da5c75b17",
 "clearedAt": "2023-02-04T06:09:26Z",
 "monitoredPeer": {
 "ciscoPeerIp": "2604:a880:1:20::2de:1001",
 "ciscoPeerName": "RS06",
 "peerIp": "2000::20:100:10",
 "peerName": "FullBogon-2",
 "sessionId": "639f069d-9ccd-46d0-b8b2-77054a199ce8"
 },
 "observed": {
 "lastViolationPeerPrefix": {
 "at": "2023-02-04T06:07:33Z",
 "bogonDetails": {
 "bogonType": "ALARM_BOGON_TYPE_FULL_BOGON",
 "prohibitedPrefixBlock": "2001:506:101::/48"
 },
 "prefix": "2001:506:101::/48"
 },
 "violationPrefixesCount": 1
 },
 "orgName": "AutomationOnly5",
 "policyId": "d011c5e4-54a1-41bb-8c7f-963d9caab208",
 "policyName": "19 - Prohibited IP Prefix - FullBogon",
 "rule": "ALARM_RULE_PROHIBITED_IP_PREFIX",
 "severity": "ALARM_SEVERITY_YELLOW",
 "state": "ALARM_STATE_ACTIVE",
 "transitionedAt": "2023-02-04T06:11:31Z"
}

```

## ROAの有効期限の例

次に、**ROAの有効期限**アラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```
{
 "activatedAt": "2023-02-04T03:27:02Z",
 "alarmId": "9f8eb76a-3eff-4e8b-809e-53bf0fd56ebe",
 "clearedAt": "2023-02-04T03:26:20Z",
 "expected": {
 "numPeersToTrigger": 1
 },
 "monitoredPrefix": "2002:101:7700::/48",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 23
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 24
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 25
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 26
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 27
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 28
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 29
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 30
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 31
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",

```

```

 "peerId": 32
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 }
],
"allViolationPeersCount": 12,
"roas": [
 {
 "asn": 33,
 "maxLength": 48,
 "notAfter": "2023-02-17T03:49:38Z",
 "notBefore": "2022-02-03T03:49:38Z",
 "prefix": "2002:101:7700::/48",
 "rpkiStatus": "ALARM_ROA_VALID",
 "trustAnchor": "ALARM_AFRINIC"
 },
 {
 "asn": 33,
 "maxLength": 48,
 "notAfter": "2023-02-17T19:24:49Z",
 "notBefore": "2022-02-03T19:24:49Z",
 "prefix": "2002:101:7700::/48",
 "rpkiStatus": "ALARM_ROA_VALID",
 "trustAnchor": "ALARM_AFRINIC"
 },
 {
 "asn": 33,
 "maxLength": 48,
 "notAfter": "2023-02-18T01:34:59Z",
 "notBefore": "2022-02-04T01:34:58Z",
 "prefix": "2002:101:7700::/48",
 "rpkiStatus": "ALARM_ROA_VALID",
 "trustAnchor": "ALARM_AFRINIC"
 }
]
},
"orgName": "AutomationOnly5",
"policyId": "d3d47d8c-fee7-45ab-baee-3a860128aa65",
"policyName": "08 - ROA Expiry",
"rule": "ALARM_RULE_ROA_EXPIRY",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "08 - ROA Expiry"
],
"transitionedAt": "2023-02-04T03:27:02Z"
}
{
 "activatedAt": "2023-02-04T03:27:02Z",
 "alarmId": "e85e68ad-e16d-4892-9fb9-c71bd92f9caf",
 "clearedAt": "2023-02-04T03:26:20Z",
 "expected": {

```

```
 "numPeersToTrigger": 1
 },
 "monitoredPrefix": "210.176.151.0/24",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 19
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 20
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 21
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 22
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 33,
 "at": "2023-02-04T03:25:38Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 }
],
 "allViolationPeersCount": 10,
 "roas": [
```

```

 {
 "asn": 33,
 "maxLength": 24,
 "notAfter": "2023-02-17T03:49:38Z",
 "notBefore": "2022-02-03T03:49:38Z",
 "prefix": "210.176.151.0/24",
 "rpkiStatus": "ALARM_ROA_VALID",
 "trustAnchor": "ALARM_AFRINIC"
 },
 {
 "asn": 33,
 "maxLength": 24,
 "notAfter": "2023-02-17T19:24:49Z",
 "notBefore": "2022-02-03T19:24:49Z",
 "prefix": "210.176.151.0/24",
 "rpkiStatus": "ALARM_ROA_VALID",
 "trustAnchor": "ALARM_AFRINIC"
 },
 {
 "asn": 33,
 "maxLength": 24,
 "notAfter": "2023-02-18T01:34:58Z",
 "notBefore": "2022-02-04T01:34:58Z",
 "prefix": "210.176.151.0/24",
 "rpkiStatus": "ALARM_ROA_VALID",
 "trustAnchor": "ALARM_AFRINIC"
 }
],
 "orgName": "AutomationOnly5",
 "policyId": "d3d47d8c-fee7-45ab-baee-3a860128aa65",
 "policyName": "08 - ROA Expiry",
 "rule": "ALARM_RULE_ROA_EXPIRY",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "prefix policy",
 "08 - ROA Expiry"
],
 "transitionedAt": "2023-02-04T03:27:02Z"
}

```

## ROA が見つからない例

次に、ROA が見つからない場合のアラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:22:07Z",
 "alarmId": "992266a8-bc34-4e6f-b396-6f0c956886ae",
 "monitoredPrefix": "2.2.2.2/32",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",

```

```
 "peerId": 19
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 20
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 21
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 22
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 }
],
 "allViolationPeersCount": 10
},
"orgName": "AutomationOnly5",
"policyId": "588687b4-4e2c-44d6-8f93-56957139b4f4",
"policyName": "07 - ROA Not Found",
"rule": "ALARM_RULE_ROA_NOT_FOUND",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "07 - ROA Not Found"
],
"transitionedAt": "2023-02-04T03:22:07Z"
}
}
```

```
"activatedAt": "2023-02-04T03:22:07Z",
"alarmId": "c7ff225d-f4e0-49d7-b607-f9d4f98b346f",
"monitoredPrefix": "2002:202:202::/48",
"observed": {
 "allViolationPeers": [
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 23
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 24
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 25
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 26
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 27
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 28
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 29
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 30
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 31
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 32
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asn": 31,
 "at": "2023-02-04T01:34:58Z",

```



```
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 }
],
 "allViolationPeersCount": 12
 },
 "orgName": "AutomationOnly5",
 "policyId": "588687b4-4e2c-44d6-8f93-56957139b4f4",
 "policyName": "07 - ROA Not Found",
 "rule": "ALARM_RULE_ROA_NOT_FOUND",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "prefix policy",
 "07 - ROA Not Found"
],
 "transitionedAt": "2023-02-04T03:22:07Z"
}
```

## ROA 障害の例

次に、**ROA 障害**アラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```
{
 "activatedAt": "2023-02-04T03:31:32Z",
 "alarmId": "358c3f57-80b8-4685-baec-7d913f39988e",
 "clearedAt": "2023-02-04T03:30:51Z",
 "expected": {
 "numPeersToTrigger": 1,
 "originAsns": [
 24,
 1136
]
 },
 "monitoredPrefix": "194.45.8.0/22",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 19
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 20
 },
 {
 "asn": 23,
```

```

 "at": "2023-02-04T03:30:09Z",
 "peerId": 21
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 22
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 }
],
 "allViolationPeersCount": 10
},
"orgName": "AutomationOnly5",
"policyId": "0510e174-1553-4c12-ac9e-be68118c8bd2",
"policyName": "09 - ROA Failure",
"rule": "ALARM_RULE_ROA_FAILURE",
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "09 - ROA Failure"
],
"transitionedAt": "2023-02-04T03:31:32Z"
}
{
 "activatedAt": "2023-02-04T03:31:32Z",
 "alarmId": "4e0b7398-ae54-408e-95fc-e7bb17a7d952",
 "clearedAt": "2023-02-04T03:30:51Z",
 "expected": {
 "numPeersToTrigger": 1,
 "originAsns": [
 24
]
 },
 "monitoredPrefix": "2002:c22d:800::/48",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",

```

```
 "peerId": 23
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 24
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 25
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 26
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 27
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 28
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 29
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 30
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 31
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 32
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asn": 23,
 "at": "2023-02-04T03:30:09Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 }
],
 "allViolationPeersCount": 12
},
"orgName": "AutomationOnly5",
"policyId": "0510e174-1553-4c12-ac9e-be68118c8bd2",
```

```

 "policyName": "09 - ROA Failure",
 "rule": "ALARM_RULE_ROA_FAILURE",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "prefix policy",
 "09 - ROA Failure"
],
 "transitionedAt": "2023-02-04T03:31:32Z"
 }
}

```

## サブプレフィックス アドバタイズメントの例

次に、サブプレフィックス アドバタイズメントアラームに関する Amazon S3 通知と Google ストレージのログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:48:07Z",
 "alarmId": "4f90ba05-d16e-4cb1-8bfe-f9bb54fc96dd",
 "clearedAt": "2023-02-04T03:47:26Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "originAsns": [
 754,
 755,
 1000,
 6000,
 6001,
 6002,
 6003,
 6004,
 6005,
 6006,
 6007,
 6008,
 6009,
 6010,
 6011,
 9541,
 9542,
 9543,
 12654,
 12655,
 28642,
 30175,
 45031,
 49622
],
 "originAsnsUsage": "ALARM_USAGE_IGNORE"
 },
 "monitoredPrefix": "2002:1764:100::/48",
 "observed": {
 "allViolationPeers": [
 {
 "peerId": 28
 },
 {
 "peerId": 29
 }
],
 "allViolationPeersCount": 2,
 }
}

```

```
"lastViolationPeers": [
 {
 "asn": 6000,
 "at": "2023-02-04T03:45:01Z",
 "peerId": 28
 },
 {
 "asn": 6001,
 "at": "2023-02-04T03:45:02Z",
 "peerId": 29
 }
],
"lastViolationPeersCount": 2,
"lastViolationPrefix": "2002:1764:100::/49",
"violationPrefixesCount": 10
},
"orgName": "AutomationOnly5",
"policyId": "634cc992-80f5-488e-bd42-bcb61217be9f",
"policyName": "12 - Subprefix Advertisement - Default",
"rule": "ALARM_RULE_SUBPREFIX_ADVERTISEMENT",
"severity": "ALARM_SEVERITY_GRAY",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "12 - Subprefix Advertisement"
],
"transitionedAt": "2023-02-04T03:48:07Z"
}
{
 "activatedAt": "2023-02-04T03:48:07Z",
 "alarmId": "6e1e50ff-e57f-4a2b-9814-7c5a71b01b1d",
 "clearedAt": "2023-02-04T03:47:26Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "originAsns": [
 754,
 755,
 1000,
 6000,
 6001,
 6002,
 6003,
 6004,
 6005,
 6006,
 6007,
 6008,
 6009,
 6010,
 6011,
 9541,
 9542,
 9543,
 12654,
 12655,
 28642,
 30175,
 45031,
 49622
]
 },
 "originAsnsUsage": "ALARM_USAGE_IGNORE"
},
```

```

"monitoredPrefix": "23.100.1.0/24",
"observed": {
 "allViolationPeers": [
 {
 "peerId": 1
 },
 {
 "peerId": 19
 }
],
 "allViolationPeersCount": 2,
 "lastViolationPeers": [
 {
 "asn": 6000,
 "at": "2023-02-04T03:45:01Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 6001,
 "at": "2023-02-04T03:45:01Z",
 "peerId": 19
 }
],
 "lastViolationPeersCount": 2,
 "lastViolationPrefix": "23.100.1.0/25",
 "violationPrefixesCount": 8
},
"orgName": "AutomationOnly5",
"policyId": "634cc992-80f5-488e-bd42-bcb61217be9f",
"policyName": "12 - Subprefix Advertisement - Default",
"rule": "ALARM_RULE_SUBPREFIX_ADVERTISEMENT",
"severity": "ALARM_SEVERITY_GRAY",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "12 - Subprefix Advertisement"
],
"transitionedAt": "2023-02-04T03:48:07Z"
}

```

## 予期しない AS プレフィックスの例

次に、予期しない AS プレフィックスアラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T02:58:11Z",
 "alarmId": "6a6be977-ecf3-423c-bf4e-fc9118659a69",
 "clearedAt": "2023-02-04T02:57:43Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2
 },
 "monitoredAsn": 601,
 "observed": {
 "allViolationPeers": [
 {
 "peerId": 1
 },
 {
 "peerId": 2
 }
]
 }
}

```

```
 },
 {
 "peerId": 3
 },
 {
 "peerId": 4
 },
 {
 "peerId": 5
 },
 {
 "peerId": 7
 },
 {
 "peerId": 19
 },
 {
 "peerId": 20
 },
 {
 "peerId": 21
 },
 {
 "peerId": 22
 }
],
 "allViolationPeersCount": 10,
 "lastViolationPeers": [
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 19
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 20
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 21
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 22
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 3,
```

```

 "peerIp": "10.11.12.3"
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 601,
 "at": "2023-02-04T02:55:11Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 }
],
 "lastViolationPeersCount": 10,
 "lastViolationPrefix": "101.1.1.0/24",
 "violationPrefixesCount": 1
 },
 "orgName": "AutomationOnly5",
 "policyId": "5e3288f9-6e6d-4df7-a862-b638e2d17b9f",
 "policyName": "01 - Unexpected AS Prefix",
 "rule": "ALARM_RULE_UNEXPECTED_AS_PREFIX",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "asn policy",
 "01 - Unexpected AS Prefix"
],
 "transitionedAt": "2023-02-04T02:58:11Z"
}

```

## アップストリーム AS の変更例

次に、アップストリーム AS 変更アラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:36:49Z",
 "alarmId": "82f76592-14ca-42ef-b446-149c1d4be731",
 "clearedAt": "2023-02-04T03:36:09Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "upstreamAsns": [
 12345
]
 },
 "monitoredPrefix": "2002:ab64:1100::/48",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 6504,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 }
]
 }
}

```



```
 },
 {
 "asn": 6503,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 23
 },
 {
 "asn": 6508,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 27
 },
 {
 "asn": 6502,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 },
 {
 "asn": 6509,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 28
 },
 {
 "asn": 6505,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 24
 },
 {
 "asn": 6510,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 29
 },
 {
 "asn": 6507,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 26
 },
 {
 "asn": 6512,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 31
 },
 {
 "asn": 6513,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 32
 },
 {
 "asn": 6506,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 25
 },
 {
 "asn": 6511,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 30
 }
],
 "allViolationPeersCount": 12
},
"orgName": "AutomationOnly5",
"policyId": "c37b83be-0213-4bb2-b391-7f02b3cec061",
"policyName": "10 - Upstream AS Change",
"rule": "ALARM_RULE_UPSTREAM_AS_CHANGE",
```

```
"severity": "ALARM_SEVERITY_RED",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "10 - Upstream AS Change"
],
"transitionedAt": "2023-02-04T03:36:49Z"
}
{
 "activatedAt": "2023-02-04T03:36:49Z",
 "alarmId": "a778b4be-e23f-42d8-8880-5402f59c1495",
 "clearedAt": "2023-02-04T03:36:09Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "upstreamAsns": [
 12345
]
 },
 "monitoredPrefix": "171.100.17.0/24",
 "observed": {
 "allViolationPeers": [
 {
 "asn": 6505,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
 },
 {
 "asn": 6503,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
 },
 {
 "asn": 6504,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
 },
 {
 "asn": 6509,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 20
 },
 {
 "asn": 6508,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 19
 },
 {
 "asn": 6507,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asn": 6511,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 22
 },
 {
 "asn": 6502,
```

```

 "at": "2023-02-04T03:33:54Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
 },
 {
 "asn": 6510,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 21
 },
 {
 "asn": 6506,
 "at": "2023-02-04T03:33:54Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 }
],
 "allViolationPeersCount": 10
},
 "orgName": "AutomationOnly5",
 "policyId": "c37b83be-0213-4bb2-b391-7f02b3cec061",
 "policyName": "10 - Upstream AS Change",
 "rule": "ALARM_RULE_UPSTREAM_AS_CHANGE",
 "severity": "ALARM_SEVERITY_RED",
 "state": "ALARM_STATE_ACTIVE",
 "tags": [
 "common tag",
 "prefix policy",
 "10 - Upstream AS Change"
],
 "transitionedAt": "2023-02-04T03:36:49Z"
}

```

## 有効な AS パスの例

次に、有効な AS パスアラームに関する Amazon S3 通知と Google ストレージ通知のログメッセージ例を示します。

```

{
 "activatedAt": "2023-02-04T03:42:08Z",
 "alarmId": "7cc0e8d0-cef5-422f-a9b9-e6dd227e2bfc",
 "clearedAt": "2023-02-04T03:41:08Z",
 "expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "validAsPathPattern": "108 (999|400) 705"
 },
 "monitoredPrefix": "2002:dc45:500::/48",
 "observed": {
 "allViolationPeers": [
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 23
 },
 {
 "asPath": [
 108,
 500,

```

```
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 24
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 25
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 26
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 27
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 28
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 29
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
```

```
 "peerId": 30
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 31
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 32
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 6,
 "peerIp": "2000::20:100:10"
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 8,
 "peerIp": "2000::30:100:10"
 }
],
 "allViolationPeersCount": 12
},
"orgName": "AutomationOnly5",
"policyId": "1b1d7a95-1104-4434-8f72-33ba216a7e7f",
"policyName": "11 - Valid AS Path",
"rule": "ALARM_RULE_VALID_AS_PATH_VIOLATION",
"severity": "ALARM_SEVERITY_YELLOW",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "11 - Valid AS Path"
],
"transitionedAt": "2023-02-04T03:42:08Z"
}
{
 "activatedAt": "2023-02-04T03:42:08Z",
 "alarmId": "86304e9c-50ce-4ec2-89a2-2c84ab10658b",
 "clearedAt": "2023-02-04T03:41:08Z",
```

```
"expected": {
 "numPeersToClear": 1,
 "numPeersToTrigger": 2,
 "validAsPathPattern": "108 (999|400) 705"
},
"monitoredPrefix": "220.69.5.0/24",
"observed": {
 "allViolationPeers": [
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 1,
 "peerIp": "10.11.12.1"
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 19
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 2,
 "peerIp": "10.11.12.2"
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 20
 },
 {
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 21
 },
 {
 "asPath": [
 108,
 500,
```

```
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 22
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 3,
 "peerIp": "10.11.12.3"
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 4,
 "peerIp": "10.11.12.4"
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 5,
 "peerIp": "10.11.12.5"
},
{
 "asPath": [
 108,
 500,
 755
],
 "asn": 755,
 "at": "2023-02-04T03:39:27Z",
 "peerId": 7,
 "peerIp": "10.31.32.1"
}
],
 "allViolationPeersCount": 10
},
"orgName": "AutomationOnly5",
"policyId": "1b1d7a95-1104-4434-8f72-33ba216a7e7f",
"policyName": "11 - Valid AS Path",
"rule": "ALARM_RULE_VALID_AS_PATH_VIOLATION",
"severity": "ALARM_SEVERITY_YELLOW",
"state": "ALARM_STATE_ACTIVE",
"tags": [
 "common tag",
 "prefix policy",
 "11 - Valid AS Path"
],
],
```

```
"transitionedAt": "2023-02-04T03:42:08Z"
}
```



## 翻訳について

このドキュメントは、米国シスコ発行ドキュメントの参考和訳です。リンク情報につきましては、日本語版掲載時点で、英語版にアップデートがあり、リンク先のページが移動/変更されている場合がありますことをご了承ください。あくまでも参考和訳となりますので、正式な内容については米国サイトのドキュメントを参照ください。