



通知エンドポイントの設定

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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 \(9 ページ\)](#) 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

ポリシー規則に違反すると、[アラーム (Alarms)] ページにアラームが表示されますが、アラームが発生したときに、自分やユーザのグループに Crosswork Cloud から通知することもできます。また、アラーム通知を受信するようにエンドポイントを設定できます。

エンドポイント通知は、ポリシー内で設定するか、[設定 (Settings)] アイコン  > [グローバル (Global)] > [通知 (Notifications)] の順にクリックして設定します。次の手順を実行して、エンドポイント通知を作成します。

手順

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 作成するエンドポイントの通知タイプを選択します。

- E メール
- [Google ストレージ](#)
- Amazon S3
- Slack
- SMS
- [Webex](#)
- [Microsoft Teams](#)

- PagerDuty

(注)

[通知メッセージの例 \(7 ページ\)](#) 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。

手順

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_ 

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_ 	
gsutil URI 	gs://gcp-stor-staging/notifications_bdd92688-659b-462e-8ce0-ee31df2b49fa_ 	
Permissions		
Public access	Not public	
Protection		
Version history 	—	
Retention policy	None	
Hold status	None edit	
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 \(9 ページ\)](#) 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。

手順

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す。
- 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。

Microsoft Teams エンドポイントの設定

次の手順を実行して、Crosswork Cloud で Microsoft Teams エンドポイントを設定します。Microsoft Teams でのアクションが必要な手順には、Microsoft サポートサイトへのヘルプリンクが含まれています。ただし、Microsoft Teams のオンラインドキュメントで最新の手順を検索するベストプラクティスを推奨します。

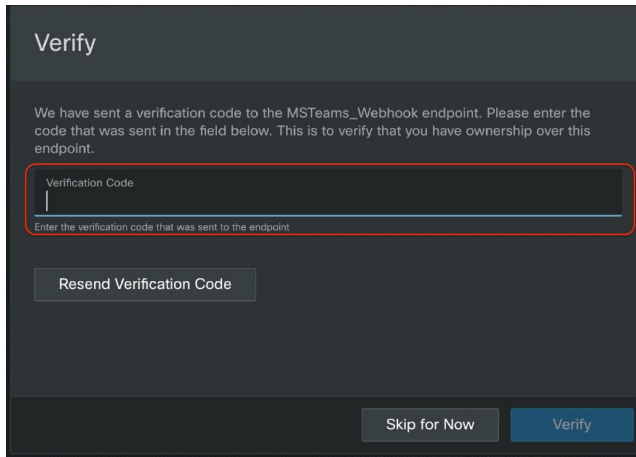


注目 Microsoft Teams のウェブフックは、[「Microsoft Teams 内の Office 365 コネクタの廃止」](#)で説明されているように、2025 年 12 月までに廃止されます。この手順は、これらの新しいワークフローをサポートするように更新されます。

手順

- ステップ 1** Microsoft Teams で、Crosswork Cloud アラーム通知を受信する [チームを作成します](#)。
- ステップ 2** [着信ウェブフックを作成](#)し、後で Crosswork Cloud で使用する一意のウェブフック URL をコピーします。

- ステップ3** Crosswork Cloudで、 > [グローバル（Global）] > [通知（Notifications）] の順にクリックします。
- ステップ4** [Microsoft Teams] を選択し、[Microsoft Teamsエンドポイントの追加（Add Microsoft Teams Endpoint）] をクリックします。
- ステップ5** エンドポイントの名前を入力します。
- ステップ6** [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。
- ステップ7** [保存（Save）] をクリックします。確認コードがメッセージとして Microsoft Teams に送信されます。
- ステップ8** Microsoft Teams から確認コードをコピーし、Crosswork Cloud の [確認（Verify）] ダイアログボックスに貼り付けます。



- ステップ9** エンドポイントを確認すると、そのエンドポイントがアクティブ状態に変わり、新しい通知が処理されます。

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。

手順

- 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 UTC,

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,

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```
        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,
```

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        "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",

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```
    "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,

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```

        "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。

プレフィックス アドバタイズメントの例

```
{
  "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-a907-8d909aafalf0",
  "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-a907-8d909aafaf1f0",
    "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",

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```

        "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

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