

# CA Application Delivery Analysis Multi-Port Monitor

リリース ノート

バージョン 10.1



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# 第1章: リリース 10.1 へようこそ

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CA Application Delivery Analysis Multi-Port Monitor (Multi-Port Monitor) は、監視対象のデータセンターからセッション レベル パケットデータをキャプチャする強力なアプライアンスです。このアプライアンスは、CA Application Delivery Analysis および CA Application Performance Management (APM) におけるレポート用のデータをキャプチャします。

- TCP パケット ヘッダのデータは、CA Application Delivery Analysis がエンドツーエンドパフォーマンスを監視してアプリケーション レスポンス時間を測定するのに役立ちます。
- 完全な HTTP パケットのデータは、CA APM がユーザ環境のトランザクションをマップしてエンドユーザ エクスペリエンスを監視し、サービス レベル アグリーメントを測定するのに役立ちます。

複数のポートからの大量のトラフィックをパッシブに監視することによって、Multi-Port Monitor はエンドツーエンドシステム パフォーマンスの連続的記録を保持するのを支援します。

これらのリリース ノートでは、リリース 10.1 の拡張機能および既知の問題についての情報を提供します。この情報は、製品 ドキュメントにリスト表示された情報を補足し、それらに代わるものです。

## このリリースの新機能

Multi-Port Monitor リリース 10.1 は以下の機能および拡張機能を提供します。

### 新しい CA6300 ハードウェア アプライアンス

- 新しいアプライアンスである CA6300 が、MTP バージョン 10.1 で提供されています。CA6300 は、サポートする SPAN データ量の増加、プロセッサ速度の向上、システム配列およびデータ配列用のディスク容量の増加によってパフォーマンスの向上を実現し、データ配列の信頼性向上のために RAID 6 を実装し、Intelligent Platform Management Interface (IPMI) に対して標準でサポートを提供します。CA6300 アプライアンスの仕様については、「インストールガイド」を参照してください。
- CA6300 アプライアンスで提供されている IPMI 機能によって、アプライアンスのリモート制御および電源管理が可能になるだけでなく、電力、温度、ファン、その他 CA6300 の稼働状況に影響する要素に関連する環境アラートの送信に対するサポートを提供します。

### CentOS 5.11 のサポート

- このリリースには、両方のアプライアンスに対して CentOS バージョン 5.11 が付属しています。既存の CA6000 アプライアンスを CentOS 5.11 を含む MTP 10.1 にアップグレードできます。

### buildpcap ユーティリティのパフォーマンスの向上

- スタンドアロンの buildpcap ユーティリティは、指定する条件に基づいて、または CA Application Delivery Analysis コンソールからのパケットキャプチャ調査リクエストに応じて pcap ファイルを構築します。buildpcap のパフォーマンスは、このリリースで向上しています。

### TIM RAM ディスクのサイズの増加

- TIM RAM ディスク (/nqtmp/tim) のサイズは、2Gb から 4Gb に増加されました。

### [分析] タブの列の並べ替え

- [分析] タブ内のいずれかの列ヘッダをクリックすると、データが正しく並べ替えられるようになりました。

## サポートされる製品

Multi-Port Monitor バージョン 10.1 は、以下のアプリケーションをサポートしています。

- CA Application Delivery Analysis バージョン 9.3、10.0、10.1。
- CA APM Transaction Impact Manager バージョン 9.1、9.5、9.6。
- Multi-Port Monitor は、Microsoft Internet Explorer バージョン 8 または 9、および Mozilla Firefox で表示できるよう設計されており、Adobe Flash Player を必要とします。 Internet Explorer バージョン 6 および 7 はサポートされていません。

## アップグレードに関する考慮事項

CA Application Delivery Analysis と共に Multi-Port Monitor のアップグレードを計画している場合、CA Application Delivery Analysis をアップグレードする前に、Multi-Port Monitor アプライアンスをアップグレードしてください。Multi-Port Monitor は CA ADA バージョン 9.3、10.0、10.1 と互換性があります。

アップグレードには、以下が含まれています。

- オペレーティングシステムの CentOS 5.11 へのアップグレード

MTP リリースをスキップしないでください。サポートされている唯一のアップグレードパスは MTP 10.0 から MTP 10.1 です。それより前の MTP リリースを使用している場合、まず MTP 10.0 にアップグレードしてから、次に MTP 10.0 から MTP 10.1 にアップグレードする必要があります。

**重要:** Multi-Port Monitor は、オペレーティングシステムおよび Multi-Port Monitor ソフトウェアのアップグレード中にトラフィックを監視しません。

ソフトウェアアップグレードが完了した後：

- データ監視が再開します。アップグレードを実行する場合は、Multi-Port Monitor 上の負荷が少なく、理想的には通常の操作がシャットダウンされる保守ウィンドウ内で行うことをお勧めします。
- 10.0 アップグレードプロセスによって、既存のデータは、バージョン 10.0 で導入された Vertica データベーススキーマにマイグレートされます。このため、MTP バージョン 10.1 にアップグレードする前に、MTP バージョン 10.0 を使用していることが必要です。このアップグレード後のデータ移行タスクは、Multi-Port Monitor 上の負荷が少ない方が早く完了します。合理的な時間内に完了するには、50 億を超えるデータベース行がマイグレートされないようにします。
  - この制限を超える日単位パーティションは、データベースの行が 50 億を下回るまで古いものから順にページされます。
  - 典型的な処理負荷を持つ Multi-Port Monitor の場合、データマイグレーションは 8 ~ 16 時間以内に完了します。負荷が高い場合、データマイグレーションは 24 時間以内に完了します。

Multi-Port Monitor をバージョン 10.1 にアップグレードするための詳細については、「アップグレードガイド」を参照してください。

## 製品のスケーラビリティおよびパフォーマンス

パフォーマンスと拡張性は複数の要因に大きく依存します。

- パッシブにミラーリングされた各ポートにミラーリングされるデータ量。
- データ トライフィックが表すセッション数。
- Multi-Port Monitor に割り当てられた WAN 最適化デバイスまたは CA GigaStor 監視フィードの数。
- Multi-Port Monitor アプライアンス上の TIM の有無。アプライアンス上で実行される TIM のパフォーマンスの管理に関する詳細については、「CA APM サイジングおよびパフォーマンス ガイド」(CA Application Performance Management マニュアル選択メニューで提供) を参照してください。

キャプチャされるトライフィック ボリュームは、RAID コントローラがハードディスク ドライブにデータを書き込むレートによって異なります。パケットスライスはこのレートを改善します。デフォルトの Multi-Port Monitor ハードウェア フィルタは、パケット ヘッダのみがキャプチャされるように、パケットをスライスします。より小さいファイルが生成されることにより、ディスク競合が減少します。

一般的に、Multi-Port Monitor は、すべてのアクティブな論理ポートで毎秒 300 ~ 400 MB のディスク書き込みレートをサポートします。2x10 GB 設定では、少数のより大きなファイルを書き込むので、この範囲内の高いレートが実現します。8x1 GB 設定では、複数のより小さなファイルを書き込むので、ディスク競合が発生する可能性が高くなります。

## スケーラビリティのガイドライン

**8x1 Gbps** (ギガビット/秒) 設定では、メトリック エンジンは以下のパラメータで適切に動作します。

- 8つのポートがすべてアクティブであり、総キャパシティの 70% (約 5.6 Gbps) で受信。
- 250 万のアクティブ セッション。

**4x1 Gbps** 設定には **8x1** 設定と同じ処理能力がありますが、ポート数が少なくなります。そのため、メトリック エンジンは、以下のパラメータで適切に動作します。

- 4つのポートすべてにおいて、約 4 Gbps のデータ レートで受信。
- 250 万のアクティブ セッション。

**2x10 Gbps** 設定では、メトリック エンジンは以下のパラメータで適切に動作します。

- 両方のポートにおいて、約 2.5 Gbps (合計 5 Gbps) のデータ レートで受信。
- 400 万のアクティブ セッション (ポート当たり 200 万)。

スループットは、同時セッション数を減少させることによりわずかに増加させることができます。 **2x10 Gbps** 設定では、メトリック エンジンは以下のパラメータで適切に動作します。

- 両方のポートにおいて、約 3.2 Gbps (合計 6.4 Gbps) のデータ レートで受信。
- 200 万のアクティブ セッション (ポート当たり 100 万)。

個々の結果は、スループット、ファイルサイズ、アクティブなポートの数、およびセッションの数に基づいて変わります。

**注:** Multi-Port Monitor 分析クエリのレスポンス時間は、1 時間ごとのスループットが増加するにつれて増加します。 クエリ時間は、メトリック データベースのエントリ数が 70 億に近づくと、低下し始めます。

## CA Application Delivery Analysis に関する考慮事項

書き込みレートおよびその他のハードウェア制約は、トラフィックスケーラビリティの重要な要素です。考慮すべきもう 1 つの要素は、5 分サマリ ファイルへ TCP パケットを処理する CA Application Delivery Analysis のキャパシティです。WAN 最適化デバイスまたは CA GigaStor が Multi-Port Monitor に割り当てられると、この処理能力はさらに制限されます。

管理 NIC に過負荷をかけないようにするには、CA GigaStor からパケット要約を受信する Multi-Port Monitor に WAN 最適化フィードを割り当てないでください。この設定はサポートされますが、パフォーマンスはトラフィックボリュームに依存します。単一の Multi-Port Monitor は、最大 50,000 の最適化された接続の 3 つのセグメントすべて（[クライアント]、[WAN]、および [サーバ]）からのパケット要約ファイルを処理できます。可能な場合は、同じ Multi-Port Monitor に複数の WAN 最適化デバイスを割り当ててブランチデバイスの負荷を分散させることはしないでください。

CA Application Delivery Analysis 管理コンソールは、Single-Port Monitor や WAN 最適化デバイスなど、他の収集デバイスをサポートできます。Multi-Port Monitor を CA Application Delivery Analysis に登録することで作成される処理負荷は、収集単位として表されます。たとえば、CA Application Delivery Analysis Single-Port Monitor は 1 つの収集単位を消費します。また、64 ビット CA Application Delivery Analysis 管理コンソールは最大 15 の収集単位をサポートします。

1 つの Multi-Port Monitor は 5 つの収集単位に相当します。

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# 第 2 章: 既知の問題

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このセクションでは、既知の問題および回避策について説明します。

## 権限設定の制限

CA Application Delivery Analysis 管理コンソールが CA Performance Center にバインドされている場合、権限セットが適用されますが、Multi-Port Monitor には適用されません。たとえば、ユーザが特定のグループのサーバに対して権限を持ち、かつ Multi-Port Monitor でグループ内の少なくとも 1 つのサーバを監視できる場合：

- CA Performance Center では、権限セット内のサーバにアクセスが制限されます。
- CA Application Delivery Analysis データ ソースでは、権限セットでサーバへのアクセスが制限されます。
- Multi-Port Monitor では、[分析] タブでそのドメインのすべてのサーバのパフォーマンス データが表示されます。

必要な場合は、権限セットの対象外の Multi-Port Monitor のデータにユーザがアクセスできないようにするために、CA Application Delivery Analysis データ ソース アクセスを制限します。

注: [データ ソースへのドリルイン] 役割権限を制限しても、CA Application Delivery Analysis 管理コンソールおよび Multi-Port Monitor へのユーザの直接アクセスは防止されません。

## 別のブラウザ ウィンドウまたはタブが開いているときの PDF へのエクスポート失敗

この問題は以下の状況で発生します。

- 同じコンピュータ上の 2 つの異なるブラウザインスタンスから同時に Multi-Port Monitor Web インターフェースにアクセスする。
- 同じインスタンス内の 2 つの別々のタブから同時に Web インターフェースにアクセスする。
- 別のブラウザインスタンスが Web インターフェースにすでにログインしているときに、CA Application Delivery Analysis からドリルダウンする。
- コンテキストをレポートする複数の CA Application Delivery Analysis からのセッション分析を開始する。

主な症状は以下のとおりです。

- フィルタ選択など、1 つのウィンドウまたはタブで実行されたユーザアクションが別のタブの動作に影響します。
- エクスポートされた PDF に、別のウィンドウまたはタブで選択されたビューが表示されます。

これらの問題は、Internet Explorer 8 および Mozilla Firefox 3.0 で見られます。この 2 つのブラウザは、ウィンドウとタブの両方へ同じセッションを割り当てます。 **回避策**： 複数のブラウザインスタンスで、または同じコンピュータ上の複数のブラウザ タブから PDF へのエクスポートを同時に実行しないでください。 (障害 22432)