

HA8000V シリーズ

**HITACHI**  
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# JP1 イベント通知ツール 取扱説明書

マニュアルはよく読み、保管してください。

製品を使用する前に、安全上の指示をよく読み、十分理解してください。

このマニュアルは、いつでも参照できるように、手近な所に保管してください。

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# はじめに

このたびは日立の HA8000V をお買い上げいただき、誠にありがとうございます。このマニュアルは、JP1 イベント通知ツールの設定方法や取り扱いの注意など、使用するために必要な事柄について記載しています。

## お問い合わせ先

### □ 技術情報、アップデートプログラムについて

HA8000V ホームページで、技術情報、ドライバやユーティリティ、BIOS、ファームウェアなどのアップデートプログラムを提供しております。[技術情報&ダウンロード]をクリックしてください。

- ホームページアドレス：<http://www.hitachi.co.jp/ha8000v/start-here/>

各アップデートプログラムはお客様責任にて実施していただきますが、システム装置を安全にご使用していただくためにも、定期的にホームページにアクセスして、最新のドライバやユーティリティ、BIOS、ファームウェアへ更新していただくことをお勧めいたします。


障害等の保守作業で部品を交換した場合、交換した部品の BIOS、ファームウェアは原則として最新のものが適用されます。また保守作業時、交換していない部品の BIOS、ファームウェアも最新のものとへ更新する場合があります。

なお、お客様による BIOS、ファームウェアアップデート作業が困難な場合は、有償でアップデート作業を代行するサービスを提供いたします。詳細はお買い求め先にお問い合わせください。

### □ 操作や使いこなしについて

本製品のハードウェアについての技術的なお問い合わせは、HCA センタ(HITAC カスタマ・アンサ・センタ)でご回答いたしますので、次のフリーダイヤルにおかけください。受付担当がお問い合わせ内容を承り、専門エンジニアが折り返し電話でお答えするコールバック方式をとらせていただきます。

HCA センタ(HITAC カスタマ・アンサ・センタ)

 0120-2580-91

受付時間

9:00～12:00/13:00～17:00(土・日・祝日、年末年始を除く)


お願い

- お問い合わせになる際に次の内容をメモし、お伝えください。お問い合わせ内容の確認をスムーズに行うため、ご協力をお願いいたします。  
形名(TYPE) / インストール OS  
「形名」は、システム装置後面のブラケットに貼り付けられている形名ラベルにてご確認ください。
- 質問内容を FAX でお送りいただくこともありますので、ご協力をお願いいたします。
- HITAC カスタマ・アンサ・センタでお答えできるのは、製品のハードウェアの機能や操作方法などです。ハードウェアに関する技術支援や、OS や各言語によるユーザープログラムの技術支援は除きます。  
ハードウェアや OS の技術的なお問い合わせについては有償サポートサービスにて承ります。  
→「技術支援サービスについて」P.8
- 明らかにハードウェア障害と思われる場合は、販売会社または保守会社にご連絡ください。

## □ 欠品・初期不良・故障について

本製品の納入時の欠品や初期不良および修理に関するお問い合わせは日立コールセンタにご連絡ください。

日立コールセンタ

 0120-921-789

受付時間

9:00～18:00(土・日・祝日、年末年始を除く)

- お電話の際には、製品同梱の保証書をご用意ください
- Web によるお問い合わせは次へお願いします。  
[https://e-biz.hitachi.co.jp/cgi-shell/qa/rep\\_form.pl?TXT\\_MACTYPE=1](https://e-biz.hitachi.co.jp/cgi-shell/qa/rep_form.pl?TXT_MACTYPE=1)

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ハードウェアやソフトウェアの技術的なお問い合わせについては、「技術支援サービス」による有償サポートとなります。

**総合サポートサービス「日立サポート 360」**

ハードウェアと Windows や Linux など OS を一体化したサポートサービスをご提供いたします。詳細は次の URL で紹介しています。

- ホームページアドレス  
<http://www.hitachi.co.jp/Prod/comp/soft1/support360/>

インストールや運用時のお問い合わせや問題解決など、システムの円滑な運用のためにサービスのご契約をお勧めします。

**HA8000V 問題切分支援・情報提供サービス**

ハードウェアとソフトウェアの問題切り分け支援により、システム管理者の負担を軽減します。詳細は次の URL で紹介しています。

- ホームページアドレス  
<http://www.hitachi.co.jp/Prod/comp/soft1/HA8000V/>

運用時の問題解決をスムーズに行うためにサービスのご契約をお勧めします。

なお、本サービスには OS の技術支援サービスは含まれません。OS の技術支援サービスを必要とされる場合は「日立サポート 360」のご契約をお勧めします。

# 目次

重要なお知らせ .....	2
規制・対策などについて .....	2
登録商標・商標について .....	3
発行 .....	3
著作権について .....	3
はじめに .....	4
お問い合わせ先 .....	4
目次 .....	6
お使いになる前に .....	7
ご確認いただくこと .....	7
本製品の概要 .....	8
特徴 .....	8
サポート機種 .....	8
サポート OS .....	8
前提製品 .....	9
関連製品 .....	9
JP1 イベント通知ツールのインストールとセットアップ .....	10
前提環境の準備 .....	10
HA8000V のセットアップ .....	11
JP1 イベント通知ツールのインストール/セットアップ .....	12
JP1/Integrated Management の設定(オプション) .....	12
JP1/Network Node Manager i の設定 .....	13
JP1 イベント通知ツールのアンインストール .....	15
HA8000V の設定の解除 .....	15
JP1/Network Node Manager i の設定の解除 .....	15
JP1 イベント通知ツールのアンインストール .....	16
前提製品・関連製品のアンインストール .....	16
svevcred コマンド .....	17
認証情報の登録 .....	17
認証情報の削除 .....	18
認証情報の一覧表示 .....	18
付録 A JP1 イベント通知ツールが発行する JP1 イベントの属性 .....	19
基本属性 .....	19
拡張属性 .....	20
付録 B JP1 イベント通知ツールが通知するアラートメッセージ .....	21
アラートメッセージ一覧 .....	21
付録 C オープンソースソフトウェアのライセンス通知 .....	22
C.1 ライセンス通知 .....	22

# 1

## お使いになる前に

この章では、JP1 イベント通知ツールのセットアップ前に知っておいていただきたい内容について説明します。

### ご確認いただくこと

ご使用になる前に次のことをご確認ください。万一不具合がありましたらお手数ですが、お買い求め先にご連絡ください。

- 形式がご注文通りのものですか。
- 輸送中に破損したと見られる箇所はありませんか。
- 添付品一覧表記載の付属品は全てそろっていますか。  
また、別紙で追加情報が同梱されているときは、内容を確認してください。

# 2

## 本製品の概要

この章では、本製品の概要について説明します。

### 特徴

本製品は、HA8000V の SNMPトラップを管理サーバで受信して、JP1 イベントに変換して送信するアプリケーションです。

JP1 イベントは、管理クライアントで参照できるほか、各種 JP1 で使用することができます。

### サポート機種

#### 管理対象

JP1 イベント通知ツールは HA8000V 全モデルを対象に動作します。

#### 管理サーバおよび管理クライアント

JP1 イベント通知ツールの前提製品および関連製品がサポートする機種で動作します。

JP1 イベント通知ツールは IPv4 および IPv6 をサポートします。

### サポート OS

JP1 イベント通知ツールは、以下の OS で動作します。  
前提製品および関連製品のサポート OS についても合わせて確認してください。

Windows Server 2016 Standard  
Windows Server 2016 Datacenter  
Windows Server 2012 R2 Standard  
Windows Server 2012 R2 Datacenter



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## 前提製品

JP1 イベント通知ツールの動作には、以下の 3 つの前提製品が必要です。

- (1) P-2A2C-6LBL JP1/Base 11-00 以降
- (2) P-2942-82BL JP1/Network Node Manager i 11-00 以降
- (3) Oracle Java Runtime Environment(JRE) 8(64bit)

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## 関連製品

JP1 イベント通知ツールには、以下の関連製品があります。

- (1) P-2A2C-8EBL JP1/Integrated Management - Manager 11-00 以降  
通知された JP1 イベントを参照するために使用します

# 3

## JP1 イベント通知ツールのインストールとセットアップ

この章では、JP1 イベント通知ツールのインストールとセットアップ方法について説明します。

### 前提環境の準備

以下の手順で、JP1 イベント通知ツールの動作の前提となる環境の準備を行ってください。前提製品および関連製品のインストールとセットアップについては、それぞれのマニュアルを参照してください。

- (1) 管理サーバに JP1/Base をインストールおよびセットアップしてください。
- (2) 管理サーバに JP1/Network Node Manager i をインストールおよびセットアップしてください。
- (3) 64bit 版 Oracle Java Runtime Environment(JRE) 8 をインストールしてください。
- (4) JRE の java.exe にパスが通っていることを確認してください。
- (5) [オプション] 管理サーバに JP1/Integrated Management - Manager をインストールおよびセットアップしてください。
- (6) [オプション] 管理クライアントに JP1/Integrated Management - View をインストールおよびセットアップしてください。

## HA8000V のセットアップ

以下の手順で、管理対象の HA8000V のセットアップを行ってください。なお、SNMPトラップの設定については、iLO Web インターフェースで行います。iLO Web インターフェースの操作方法については、「iLO 5 User Guide」を参照してください。

- (1) iLO Web インターフェースを使用して、JP1 イベント通知ツール用のユーザーを登録してください。

設定可能なログイン名およびパスワードについては、「HA8000V シリーズ お使いいただく前に」を参照してください。

なお、JP1 イベント通知ツール用のユーザーのパスワードには、「”」「%」「!」「¥」を使用できません。

ユーザーの権限(User Privileges)には、少なくとも以下を付与してください。

•Login

- (2) iLO Web インターフェースを使用して、SNMPトラップの送信設定を行ってください。

設定項目	設定内容
Trap Community	JP1/Network Node Manager i の設定と合わせてください
SNMP Alert Destination(s)	管理サーバの IP アドレスを指定してください
Trap Source Identifier	iLO Hostname
iLO SNMP Alerts	Enabled
Cold Start Trap Broadcast	任意
SNMP Trap Port	JP1/Network Node Manager i の設定と合わせてください
SNMPv1 Traps	[SNMP Trap V1 を使用する場合] Enabled  [SNMP Trap V3 を使用する場合] Disabled
SNMPv3 Users	[SNMP Trap V3 を使用する場合のみ] JP1/Network Node Manager i の設定と合わせてください
SNMPv3 Engine ID	[SNMP Trap V3 を使用する場合のみ] JP1/Network Node Manager i の設定と合わせてください

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## JP1 イベント通知ツールのインストール/セットアップ

以下の手順で、管理サーバに JP1 イベント通知ツール本体のインストールし、セットアップを行ってください。

- (1) JP1 イベント通知ツールの ZIP ファイルを任意のディレクトリに展開してください。
- (2) <(1)で展開したディレクトリ>にアクセス権を設定してください。
  - (a) SYSTEM アカウントには、「フルコントロール」権限を与えてください。
  - (b) <(1)で展開したディレクトリ>以下にはパスワードが(難読化された状態で)記録されますので、パスワードを参照されたくないユーザーへアクセス権を与えないでください。
- (3) コマンドプロンプトを開き <(1)で展開したディレクトリ>%svevcred コマンドを実行して、「HA8000V のセットアップ」-(1)で作成したアカウントの認証情報を登録してください。  
svevcred コマンドの使用方法については、「svevcred コマンド」を参照してください。

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## JP1/Integrated Management の設定(オプション)

以下の手順で、JP1 イベント通知ツールのイベント拡張属性定義ファイルを、JP1/Integrated Management の環境にコピーしてください。

- (1) JP1 イベント通知ツールのインストールディレクトリにあるイベント拡張属性定義ファイルを、JP1/Integrated Management の環境にコピーしてください。

コピー元のファイル:

<JP1 イベント通知ツールのインストールディレクトリ>%IM にあります。

日本語環境では、hitachi\_hcsm\_attr\_ja.conf を使用してください。

コピー先:

JP1/Integrated Management - Manager のマニュアルを参照してください。

## JP1/Network Node Manager i の設定

以下の手順で、JP1/Network Node Manager i の設定を行ってください。詳細については、JP1/Network Node Manager i のマニュアルを参照してください。

- (1) 管理対象の HA8000V を、JP1/Network Node Manager i の監視対象にしてください。
- (2) SNMP トラップを受信したときに、<JP1 イベント通知ツールのインストールディレクトリ>%svevtool.bat が呼び出されるように設定してください。

設定項目	設定内容
SNMP のオブジェクト ID の指定	".1.3.6.1.4.*"を指定してください
コマンドの引数	引数として "\$*" を追加してください

設定例:

JP1/Network Node Manager i のバージョンによってメニューや項目が変わる場合があります。この例では、JP1 イベント通知ツールのインストールディレクトリを C:%svevtool としています。

- (a) 「設定」-「インシデント」-「SNMPトラップの設定」から設定を新規作成
- (b) 「アクション」タブで、「ライフサイクルの移行アクション」を登録。
  - ・「ライフサイクル状態」は「登録済み」
  - ・「コマンドのタイプ」は「ScriptOrExecutable」
  - ・「コマンド」に「C:%svevtool%svevtool.bat \$\*」

## 注意事項

- 以下のいずれかの環境に JP1 イベント通知ツールをインストール・セットアップした場合、HA8000V から JP1/Network Node Manager i への 1 件の SNMP トラップを契機に 2 件の JP1 イベント(※1)が登録されることがあります。

(1)JP1/Integrated Management – Event Gateway for Network Node Manager i(以下、JP1/IM – EG for NNMi)を使用している。

(2)JP1/Network Node Manager i の「ライフサイクルの移行アクション」に JP1 イベント通知ツール以外の JP1 イベントを発行するアクションが登録されている。  
(JP1/Base の jevsend コマンドの登録や JP1/Network Node Manager i の IM 連携簡易化ツールの登録など)

(※1)SNMP トラップの JP1 イベントと JP1 イベント通知ツールが通知する JP1 イベント通知される JP1 イベントを 1 件にする必要がある場合、以下の方法で対処してください。詳細な手順はそれぞれマニュアルを参照してください。

### (1)の場合

JP1/IM-EG for NNMi のフィルターの設定で、除外条件に以下の条件を設定してください。

- (a)ソースノードが HA8000V の iLO の IP アドレス  
かつ
- (b)発生元が SNMP トラップ

### (2)の場合

JP1/Network Node Manager i の「ライフサイクルの以降アクション」の設定で、JP1 イベント通知ツール対象の HA8000V の iLO の IP アドレスから送信される SNMP トラップを契機に実行されるアクションから、JP1 イベント通知ツール以外の JP1 イベントを発行するアクションを削除してください。

# 4

## JP1 イベント通知ツールのアンインストール

この章では、JP1 イベント通知ツールのアンインストール方法について説明します。

### HA8000V の設定の解除

以下の手順で、管理対象の HA8000V の JP1 イベント通知ツールに関する設定を解除してください。なお、SNMP トラップの設定については、iLO Web インターフェースで行います。iLO Web インターフェースの操作方法については、「*iLO 5 User Guide*」を参照してください。

- (1) iLO Web インターフェースを使用して、SNMPトラップの送信設定を解除してください。
- (2) iLO Web インターフェースを使用して、JP1 イベント通知ツール用のユーザーを削除してください。

### JP1/Network Node Manager i の設定の解除

以下の手順で、JP1/Network Node Manager i の設定の解除を行ってください。詳細については、JP1/Network Node Manager i のマニュアルを参照してください。

- (1) SNMPトラップを受信したときの JP1 イベント通知ツールを呼び出すアクションを削除してください。
- (2) JP1/Network Node Manager i の管理対象から HA8000V を削除してください。

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## JP1 イベント通知ツールのアンインストール

JP1 イベント通知ツールのインストールディレクトリを削除してください。

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## 前提製品・関連製品のアンインストール

必要に応じて、前提製品・関連製品のアンインストールを行ってください。



# 5

## svevcred コマンド

この章では、JP1 イベント通知ツールが HA8000V から情報を取得する際に使用する認証情報を登録・削除・一覧表示する svevcred コマンドについて説明します。

### 認証情報の登録

認証情報を登録します。

```
svevcred -add [-ip [IP アドレス]] [-port [ポート番号]] -user "[ユーザー名]" -password "[パスワード]"
```

「HA8000V のセットアップ」-(1)で作成したユーザーを指定してください。

[ユーザー名]および[パスワード]の文字列全体をそれぞれ""で囲ってください。IP アドレスを指定しない場合は、すべての HA8000V に対しての設定になります。IP アドレスを指定した場合は、その IP アドレスの HA8000V に対しての設定になります。すべての HA8000V に対しての設定と特定の IP アドレスの HA8000V に対しての設定が両方設定されている場合は、特定の IP アドレスの HA8000V に対しての設定を用います。なお、特定の IP アドレスの HA8000V に対しての設定を用いて正常に通信できなかった場合でも、すべての HA8000V に対しての設定は参照しません。

1 つの IP アドレスには、1 つしか認証情報を登録できません。同じ IP で再度登録された場合は前の設定を上書きします。

ポート番号は省略可能です。その場合、デフォルト 443 が使用されます。

---

## 認証情報の削除

認証情報を削除します。

```
svevcred -del [-ip [IP アドレス]]
```

IP アドレスを指定しない場合は、デフォルトの設定を削除します。

---

## 認証情報の一覧表示

認証情報の一覧を表示します。

```
svevcred -list
```

IP アドレスとポート番号とユーザー名の一覧が表示されます。

# A

## 付録 A JP1 イベント通知ツールが発行する JP1 イベントの属性

この章では、JP1 イベント通知ツールが発行する JP1 イベントの属性を説明します。

JP1 イベントの属性には、基本属性と拡張属性があります。

- ・基本属性: すべての JP1 イベントが持っている属性
- ・拡張属性: JP1 イベント通知ツールが独自に割り当てる属性

### 基本属性

すべての JP1 イベントが持っている属性です。属性の詳細については、JP1/Base のマニュアルを参照してください。

JP1 イベント通知ツールでは、次の通知情報を含みます。

- (1) イベント ID: 重大度に応じて次の ID を示します。
  - 0x00012410: 情報
  - 0x00012411: 警告
  - 0x00012412: エラー
- (2) メッセージ: アラートの内容を示します。

## 拡張属性

JP1 イベント通知ツールが独自に割り当てる属性です。JP1 イベントの拡張属性として通知される内容を次の表に示します。

属性名	通知情報	内容
SEVERITY	重大度	JP1 イベント通知ツールのアラートレベルに対応した、次のどれかを示します。 ・情報 ・警告 ・エラー
PRODUCT_NAME	プロダクト名	/HITACHI/HCSM
ROOT_OBJECT_TYPE	登録名タイプ	CHASSIS
OBJECT_TYPE	オブジェクトタイプ	HARDWARE
ROOT_OBJECT_NAME	登録名	アラートを通知したサーバ名を示します。
OBJECT_NAME	オブジェクト名	アラートの発生部位を示します。
OCCURRENCE	事象種別	SVP
HCSM_ALERT_LEVEL	アラートレベル	アラートレベルを示します。
HCSM_RESOURCE_NAME	リソース名	リソース名を示します。
HCSM_ALERT_ID	アラートID	アラートIDを示します。
HCSM_RECEIVE_TIME	受信日時	アラートの受信日時を示します。 (※1)
HCSM_ALERT_NO	アラート番号	JP1 イベント通知ツールでは空文字列になります。
HCSM_LOCATION	発生個所	アラートの発生個所を示します。
HCSM_OCCURRENCE_TIME	発生日時	アラートの発生日時を示します。 (※1)

※1 … JP1 イベント通知ツールでは、ツールが JP1/Network Node Manager i から呼び出された時の時刻が通知されます。

# B

## 付録 B JP1 イベント通知ツールが通知するアラートメッセージ

この章では、JP1 イベント通知ツールが発行するアラートメッセージ一覧について説明します。

### アラートメッセージ一覧

アラート ID 一覧を次の表に示します。

凡例

[アラート ID]

メッセージのアラート ID を示します。JP1 イベントの拡張属性 HCSM\_ALERT\_ID の値です。

[アラートレベル]

メッセージのアラートレベルを示します。(情報/警告/障害レベル)。JP1 イベントの拡張属性 HCSM\_ALERT\_LEVEL の値です。

[メッセージ]

メッセージを示します。メッセージ内の“X”、“Y”には文字が入ります。JP1 イベントの基本属性の1つです。

アラート ID	アラートレベル	メッセージ
内容		
0xFD40	警告	サーバで警告イベントが発生しました。 (指摘部位:X、発生事象:Y)
[意味] サーバで警告レベルのイベントが発生したことを示します。 X はイベント発生部位を示します。Y は発生事象を示します。 [対処] JP1 イベント通知ツールアラート一覧を参照してください。		
0xFD41	障害	サーバで障害が発生しました。 (指摘部位:X、発生事象:Y)
[意味] サーバで障害レベルのイベントが発生したことを示します。 X はイベント発生部位を示します。Y は発生事象を示します。 [対処] JP1 イベント通知ツールアラート一覧を参照してください。		
0xFD7F	情報	イベントが記録されました。 (指摘部位:X、発生事象:Y)
[意味] X に示す部位に関して、イベントが記録されたことを示します。 Y は記録されたイベントを示します。 [対処] JP1 イベント通知ツールアラート一覧を参照してください。		

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