

HA8000V/RV3000 シリーズ

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JP1 イベント通知ツール 取扱説明書

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はじめに

このたびは日立の HA8000V シリーズ/RV3000 シリーズ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 シリーズ/RV3000 シリーズホームページで、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。[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

HA8000V シリーズ : <https://www.hitachi.co.jp/products/it/ha8000v/start-here/>

RV3000 シリーズ : <https://www.hitachi.co.jp/products/it/rv3000/start-here/>


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受付時間

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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。


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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.7
- 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。

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フリーコール

受付時間

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- お電話の際には、製品同梱の保証書をご用意ください

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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
<https://www.hitachi.co.jp/Prod/comp/soft1/support360/>

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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、JP1/Network Node Manager i が HA8000V シリーズ/RV3000 シリーズ(以降、管理対象)の SNMP トラップを受信したときのアクションとして呼び出され、管理対象の SNMP トラップを JP1 イベントに変換して送信するアプリケーションです。管理対象の SNMP トラップを、独自の変換ルールと管理対象の SNMP トラップの MIB 定義ファイル相当の情報を使用して JP1 イベントに変換します。

サポート機種

管理対象

JP1 イベント通知ツールは HA8000V シリーズ/RV3000 シリーズ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 2019 Standard
Windows Server 2019 Datacenter
Windows Server 2016 Standard
Windows Server 2016 Datacenter
Windows Server 2012 R2 Standard
Windows Server 2012 R2 Datacenter

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 または、P-2A2C-6LCL JP1/Base 12-00 以降
- (2) P-2942-82BL JP1/Network Node Manager i 11-00 以降 または、
P-2942-82CL JP1/Network Node Manager i 12-00 以降
- (3) Oracle Java Runtime Environment(JRE) 8(64bit) または、
P-293Z-7J94 実行強化サポートオプション for Java 09-70 以降

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 または、
P-2A2C-8ECL JP1/Integrated Management2 - Manager 12-00 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

※以下、本マニュアルでは、「JP1/Integrated Management2 - Manager」も含めて
「JP1/Integrated Management - Manager」と表記しています。

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 または実行環境強化サポートオプション for Java をインストールしてください。

- (4) Java 実行環境の java.exe にパスが通っていることを確認してください。

注意事項:システム環境変数のパスを変更した場合は、管理サーバを再起動して、変更を有効にしてください。

- (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。

管理対象のセットアップ (HA8000V シリーズ/RV3000 A1 の場合)

管理対象の機種が HA8000V シリーズ/RV3000 A1 の場合は以下の手順で、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 重要事項および読替ガイド」および「RV3000 重要事項および読替ガイド」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

管理対象のセットアップ (RV3000 A2 の場合)

管理対象の機種が RV3000 A2 の場合は以下の手順で、セットアップを行ってください。各操作は、RMC CLI で行います。RMC CLI の操作方法については「RV3000 A2 ユーザーズガイド」を参照してください。

- (1) RMC CLI に administrator ユーザでログインして、次のコマンドで 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。

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。

ユーザーのロールには、Administrator, Operator, ReadOnly のどれかを付与してください。

```
add user name=<ユーザ名> role=<ユーザのロール>
```

設定例:

```
add user name=userA role= Administrator
```

- (2) 次のコマンドを入力します。

```
set snmp forward_address=<管理サーバの IP アドレス>
```

設定例:

```
set snmp forward_address=192.168.0.1
```

- (3) 次のコマンドを入力して RMC を再起動します。

```
reboot rmc
```

注意事項

- ・ 送信されるトラップは SNMP v1 になります。SNMP v3 でのトラップ送信はできません。

システム環境変数の設定

Java 実行環境に実行環境強化サポートオプション for Java を使用する場合、システム環境変数に以下の変数を追加してください。

Oracle Java Runtime Environment(JRE) 8 を使用する場合にはシステム環境変数の設定は必要ありません。

変数名	変数値
SVEVTOOL_JAVA_OPTS	実行環境強化サポートオプション for Java の取扱説明書(使用の手引き)を参照して、必要な日立 JavaVM 起動オプションを設定してください。

デフォルトでは、JP1 イベントの属性 HCSM_OCCURRENCE_TIME(発生日時)は、タイムゾーンが UTC で表示されます。属性 HCSM_OCCURRENCE_TIME をローカルタイムで表示したい場合は、システム環境変数に以下の変数を追加してください。

システム環境変数を設定・削除した場合は、変更内容を反映させるために、管理サーバを再起動してください。

なお、属性 HCSM_OCCURRENCE_TIME のローカルタイムでの表示は、バージョン 01-10 以降の JP1 イベント通知ツールで使用できます。

変数名	変数値
SVEVTOOL_OCCURRENCE_TIME	任意。 (変数が定義されているかどうかで判別されます)

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。管理対象の装置を追加する場合は、(3)を実施してください。

- (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、「管理対象のセットアップ(HA8000 シリーズ/RV3000 A1 の場合)」-(1)または「管理対象のセットアップ(RV3000 A2 の場合)」-(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。

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(監視対象を追加する場合も、以下手順を参照して設定を見直してください)。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	<ul style="list-style-type: none"> ・管理対象が HA8000 シリーズ/RV3000 A1 のみの場合 “.1.3.6.1.4.1.232.*”を指定してください ・管理対象が RV3000 A2 のみの場合 “.1.3.6.1.4.1.59.*” および、 “.1.3.6.1.4.1.3183.*”を指定してください ・管理対象が HA8000 シリーズ/RV3000 A1 と RV3000 A2 が混在する場合 “.1.3.6.1.4.1.232.*”、 “.1.3.6.1.4.1.59.*” および、 “.1.3.6.1.4.1.3183.*”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、管理対象から 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)ソースノードが管理対象の iLO/RMC 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「ライフサイクルの移行アクション」の設定で、JP1 イベント通知ツールの管理対象の iLO/RMC 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。

- ・ 本書記載のオブジェクト ID の範囲(例 “.1.3.6.1.4.1.232.*”)と重複するオブジェクト ID の範囲に対して JP1 イベント通知ツール以外のアクションを定義したい場合は、次に述べる JP1/Network Node Manager i の仕様に従って設定をする必要があります。以下は、重複するオブジェクト ID が “.1.3.6.1.4.1.232.*” を例として説明します。

(a) 最も長い一致が優先される

SNMP トラップの設定に “.1.3.6.1.4.1.232.*” より長い定義 (“1.3.6.1.4.1.232.0.*” や “.1.3.6.1.4.1.232.0.1006” など)が設定されていた場合、 “.1.3.6.1.4.1.232.*” の範囲のうち、長い定義に合致するオブジェクト ID の範囲は無視され、無視された範囲の “.1.3.6.1.4.1.232.*” のアクションは実行されません。

例えば、 “.1.3.6.1.4.1.232.*” に対するアクション X と、それより長い定義 “.1.3.6.1.4.1.230.*” に対するアクション Y があつた場合、アクション Y の定義は常に有効ですが、アクション X の範囲のうち、 “.1.3.6.1.4.1.232.0.*” が無視されます。なお、それ以外のアクション X の範囲 (“1.3.6.1.4.1.232.1.*”、 “.1.3.6.1.4.1.232.2.*” など)は有効です。

(b) 同一のオブジェクト ID に対して異なるアクションを定義する場合は、一つのオブジェクト ID の定義に対して二つのアクションを併記する必要があります。

設定例

(例 1) 次の二つのアクションを共存させたい場合

- .1.3.6.1.4.1.232.* 「C:¥svevtool¥svevtool.bat" \$*」
 (JP1 イベント通知ツール)
 .1.3.6.1.4.1.232.0.* xyz (お客様が設定したいアクション)

オブジェクト ID	ライフサイクルの移行アクションのコマンド
.1.3.6.1.4.1.232.*	"C:¥svevtool¥svevtool.bat" \$*
.1.3.6.1.4.1.232.0.*	xyz "C:¥svevtool¥svevtool.bat" \$*

(例 2) 次の二つのアクションを共存させたい場合

- .1.3.6.1.4.1.232.* 「C:¥svevtool¥svevtool.bat" \$*」
 (JP1 イベント通知ツール)
 .1.3.6.1.4.1.232.0.1006 xyz (お客様が設定したいアクション)

オブジェクト ID	ライフサイクルの移行アクションのコマンド
.1.3.6.1.4.1.232.*	"C:¥svevtool¥svevtool.bat" \$*
.1.3.6.1.4.1.232.0.1006 (※)	xyz "C:¥svevtool¥svevtool.bat" \$*

※詳細なオブジェクト ID に関しては、別紙「JP1 イベント通知ツール アラート一覧」を参照ください。

- JP1 イベント通知ツールを使用する場合は、JP1/Network Node Manager i で管理対象の MIB ファイルをロードしないでください。

4

JP1 イベント通知ツールのアップデート

この章では、JP1 イベント通知ツールのアップデート方法について説明します。

JP1 イベント通知ツールのアップデート

以下の手順で、管理サーバの JP1 イベント通知ツール本体のアップデートを行ってください。

(1)以下のファイルとディレクトリを任意のディレクトリにコピーして退避してください。

＜JP1 イベント通知ツールのインストール先＞¥credential.ini

＜JP1 イベント通知ツールのインストール先＞¥log ディレクトリ

(2) JP1 イベント通知ツールのインストール先のファイルとディレクトリをすべて削除してください。

(3) 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、内容を JP1 イベント通知ツールのインストール先にコピーしてください

(4) (1)で退避したファイルを JP1 イベント通知ツールのインストール先にコピーしてください。

(5) JP1 イベント通知ツールのインストール先のディレクトリ下のアクセス権の設定をしてください。詳細は「JP1 イベント通知ツールのインストール/セットアップ」を参照してください。

(6) 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。詳細は「JP1/Integrated Management の設定(オプション)」を参照してください。

(7) 管理対象の装置を追加する場合は、svevcred コマンドを実行してください。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。

5

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。

管理対象の設定の解除

以下の手順で、管理対象の 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、HA8000V および RV3000 A1 の場合は iLO Web インターフェース、RV3000A2 の場合は RMC CLI 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) SNMPトラップの送信設定を解除してください。
HA8000V シリーズおよび RV3000 A1 の場合は iLO Web インターフェースを使用してください。
RV3000 A2 の場合は RMC CLI から次のコマンドを入力してください。
`remove snmp forward_address=<管理サーバの IP アドレス>`

使用例:

```
remove snmp forward_address=192.168.0.1
```

- (2) 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。
HA8000V シリーズおよび RV3000 A1 の場合は iLO Web インターフェースを使用してください。
RV3000 A2 の場合は RMC Web GUI を使用してください。

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 の監視対象から、管理対象を削除してください。

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。

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。

システム環境変数の削除

Java 実行環境に実行環境強化サポートオプション for Java を使用していた場合、システム環境変数 SVEVTOOL_JAVA_OPTS を削除してください。

また、システム環境変数 SVEVTOOL_OCCURRENCE_TIME を設定していた場合、削除してください。

6

svevcred コマンド

この章では、JP1 イベント通知ツールが管理対象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]"
```

IP アドレスは、管理対象の iLO/RMC のアドレスを指定してください。

ユーザー名は、「管理対象のセットアップ(HA8000V シリーズまたは RV3000 A1 の場合)」-(1)または「管理対象のセットアップ(RV3000 A2 の場合)」-(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、すべての管理対象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 アドレスの管理対象に対しての設定になります。すべての管理対象に対しての設定と特定の IP アドレスの管理対象に対しての設定が両方設定されている場合は、特定の IP アドレスの管理対象に対しての設定を用います。なお、特定の IP アドレスの管理対象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、すべての管理対象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。(※2)
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。(※2)
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。

※2 …JP1 イベント通知ツールでは、「<モデル名> BMC(<i>LO/RCM の IP アドレス</i>)」の形式で通知されます。

例:

HA8000V/DL380 Gen10 BMC(192.168.1.1)

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。		

C

付録 C オープンソースソフトウェアのライセンス通知

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C.1 ライセンス通知

本製品の一部には下記ライセンスのオープンソースソフトウェアが含まれています。

#	オープンソースソフトウェア	ライセンス
1	org.glassfish.jersey.core:jersey-client	COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.1
2	org.glassfish.jersey.core:jersey-common	
3	HK2(hk2-api)	GNU General Public License Version 2 with "CLASSPATH" EXCEPTION TO THE GPL VERSION 2 by Oracle
4	HK2(hk2-utils)	
5	HK2(hk2-locator)	

6	org.glassfish.hk2.external:aopalliance-repackaged	
7	org.glassfish.hk2.osgi-resource-locator	
8	org.glassfish.hk2.external:javax.inject	
9	org.glassfish.jersey.bundles.repackaged:jersey-guava	
10	org.glassfish.jersey.media:jersey-media-json-jackson	
11	org.glassfish.jersey.ext:jersey-entity-filtering	
12	javax.ws.rs:javax.ws.rs-api	
13	javax.annotation:javax.annotation-api	COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.0 governed by the laws of the State of California GNU General Public License Version 2 with "CLASSPATH" EXCEPTION TO THE GPL VERSION 2 by Sun Microsystems
14	javax.inject:javax.inject	Apache License, Version 2.0
15	com.fasterxml.jackson.core:jackson-annotations	
16	com.fasterxml.jackson.core:jackson-core	
17	com.fasterxml.jackson.core:jackson-databind	
18	com.fasterxml.jackson.jaxrs:jackson-jaxrs-base	
19	com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider	
20	com.fasterxml.jackson.module:jackson-module-jaxb-annotations	
21	Javassist	Apache License, Version 2.0 GNU Lesser General Public License Version 2.1 Mozilla Public License Version 1.1
22	SNMP4J	Apache License, Version 2.0

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