

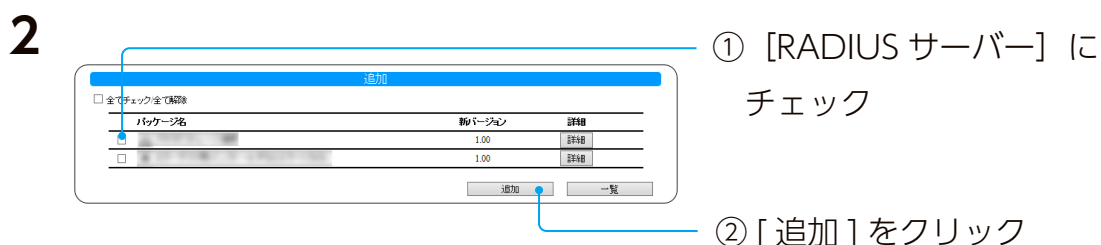
ネットワークを不正アクセスから守る

ネットワーク接続ハードディスク HDL-H シリーズ RADIUS サーバーパッケージ

パッケージを追加する方法

パッケージの追加の前に

本製品（HDL-H シリーズ）のファームウェアを最新にしてからパッケージを追加してください。



これでパッケージが追加されます。

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RADIUS サーバーパッケージのできること

本製品に IEEE802.1X(EAP) 対応 RADIUS サーバーサービスを追加するパッケージです。本製品内に登録した代理認証機器 (Network Access Server) からの EAP パケット (または認証パケット) を受けて、本製品に登録したユーザー情報を照らし合わせアクセス許可をおこないます。

また証明書発行機能にも対応し、本製品からダウンロードした証明書をインストールした端末のみアクセス許可することができます。

<サポートする認証方式>

- EAP-TLS 認証
- MAC アドレス認証
- ユーザー認証 (PEAP(MS-CHAPv2) 認証)
 - ※ Active Directory に登録されたユーザー情報との連携も可能

本パッケージの機能は簡易 RADIUS サーバー認証です

本製品の RADIUS サーバーパッケージは、SOHO などの小規模な環境での利用を想定しております。より細かい設定をご希望の場合は、別途 RADIUS サーバーをご用意されることをおすすめいたします。

RADIUS による認証ネットワーク構築について

本製品の RADIUS サーバーパッケージを利用した機器構成などの概要については、以下の弊社 Web ページをご確認ください。

https://www.iodata.jp/product/nas/info/radius_pack.htm



RADIUS サーバー設定

はじめに本製品の RADIUS サーバー設定を確認します。

RADIUS サーバーパッケージをご利用の際は…

本製品（HDL-H シリーズ）、代理認証機器（スイッチや AP など）の IP アドレスは“固定”にしてご利用ください。

1 設定画面を開きホームから [RADIUS サーバー] → [サーバー設定] をクリック

2

①サーバー設定をする

※設定内容については、下記【設定一覧】をご覧ください。

② [適用] をクリック

設定一覧

RADIUS サーバー機能	本製品で RADIUS サーバー機能を使う場合は、[有効] を選びます。
ポート番号	RADIUS サーバー機能で使うポート番号を変更する場合に入力します。(初期値：1812)
MAC アドレス認証機能	MAC アドレスで認証をおこなう場合に、[有効] を選びます。 クライアント機器単位で制限する場合に利用できます。
ユーザー認証機能	ユーザー名、パスワードを入力して認証をおこなう場合に、[有効] を選びます。 ユーザー単位で制限する場合に利用できます。 Active Directory に登録されたユーザー情報を認証に使う場合は、[Active Directory 認証] にチェックを入れます。 ※あらかじめ本製品を Active Directory に参加させておいてください。方法は本製品の【画面で見るマニュアル】でご確認ください。
証明書認証機能	クライアントに証明書をインストールして認証をおこなう場合に、[有効] を選びます。

以上で、RADIUS サーバー機能の設定は完了です。

登録情報のエクスポート・インポートについて

【MAC アドレスで認証管理する】(5 ページ) と 【ユーザー単位で認証管理する】(6 ページ) で登録した情報をエクスポートする場合は [エクスポート] をクリックして任意の場所に保存してください。

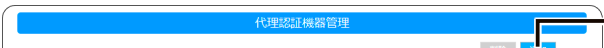
エクスポートした情報を読み込む場合は [インポート] をクリックしてファイルを選択してください。

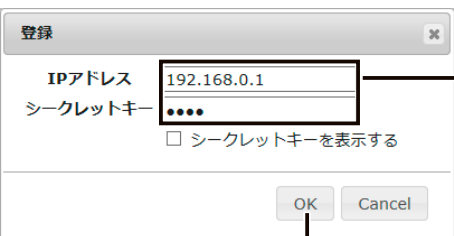
代理認証機器管理

本製品とクライアント機器との間にある、スイッチやアクセスポイントなどの機器を登録・管理します。

代理認証機器の登録（追加）

1 設定画面を開きホームから [RADIUS サーバー] → [代理認証機器管理] をクリック

2  [追加] をクリック

3  ①登録する機器の [IP アドレス]
[シークレットキー*] を入力
② [OK] をクリック

※シークレットキーは、代理認証機器の設定画面などで RADIUS サーバーの設定をおこなう際に必要です。サーバー側で任意で設定し、代理認証機器に登録してください。

以上で、代理認証機器の登録（追加）は完了です。

登録機器の管理

代理認証機器の情報を変更する場合は、変更する機器の [変更] をクリックします。

代理認証機器の情報を削除する場合は、変更する機器の [削除] をクリックします。

また、複数の機器を同時削除する場合は、削除する機器にチェックを入れて、右上の [削除] をクリックします。

IP アドレスを変更する場合は、登録した情報を削除のうえ、再度新しく登録しなおしてください。

代理認証機器側の設定

代理機器認証を登録しただけでは、認証機能は使えません。

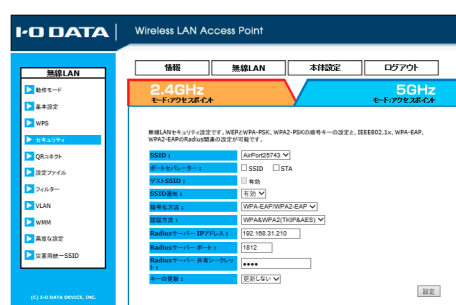
代理認証機器側の設定をおこなってください。(以下の画面例)

詳細は各製品ページをご確認ください。

▼スイッチの画面例



▼アクセスポイントの画面例



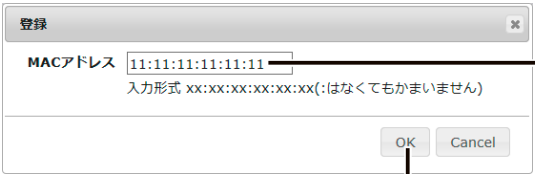
MAC アドレスで認証管理する

クライアント機器の MAC アドレスを登録することで、アクセス許可をおこないます。

クライアントの MAC アドレス登録（追加）

1 設定画面を開きホームから [RADIUS サーバー] → [MAC アドレス管理] をクリック

2  [追加] をクリック

3  ①クライアントの [MAC アドレス※]
を入力
② [OK] をクリック

※ MAC アドレスは、半角英数字（大文字 / 小文字の区別なし）で入力してください。

入力形式はコロン付き (34:76:C5:XX:XX:XX) またはコロンなし (3476C5XXXXXX) にも対応しています。

以上で、クライアントの登録（追加）は完了です。

クライアントの管理

クライアントの情報を削除する場合は、変更する機器の [削除] をクリックします。

また、複数の機器を同時削除する場合は、削除する機器にチェックを入れて、右上の [削除] をクリックします。

【ユーザー単位で認証管理する

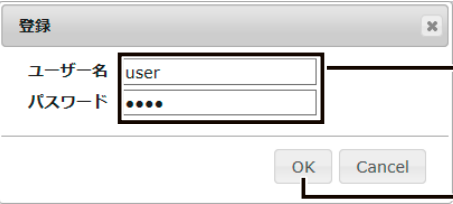
ユーザー名とパスワードを使ってアクセス許可をおこないます。

クライアント機器をネットワークに接続する際に、ユーザーがここで設定したユーザー名とパスワードを入力することで、アクセスが可能となります。

ユーザー登録（追加）

1 設定画面を開きホームから [RADIUS サーバー] → [ユーザー管理] をクリック

2  [追加] をクリック

3  ①任意の [ユーザー名] [パスワード] を入力
② [OK] をクリック

以上で、ユーザーの登録（追加）は完了です。

ユーザーの管理

ユーザー情報を変更する場合は、変更する機器の [変更] をクリックします。

ユーザー情報を削除する場合は、変更する機器の [削除] をクリックします。

また、複数のユーザーを同時削除する場合は、削除するユーザーにチェックを入れて、右上の [削除] をクリックします。

ユーザー名を変更する場合は、登録した情報を削除のうえ、再度新しく登録しなおしてください。

証明書を発行して認証管理する

証明書を使ってアクセス許可をおこないます。

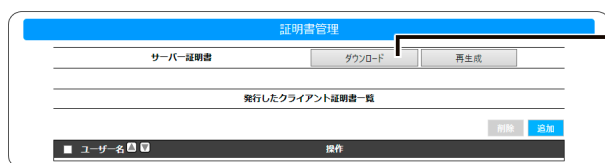
クライアント機器に本製品で発行した証明書をインストールすることで、アクセスが可能となります。

※サーバー証明書とクライアント証明書の両方をインストールする必要があります。

サーバー証明書を発行する

- 1 設定画面を開きホームから [RADIUS サーバー] → [証明書管理] をクリック

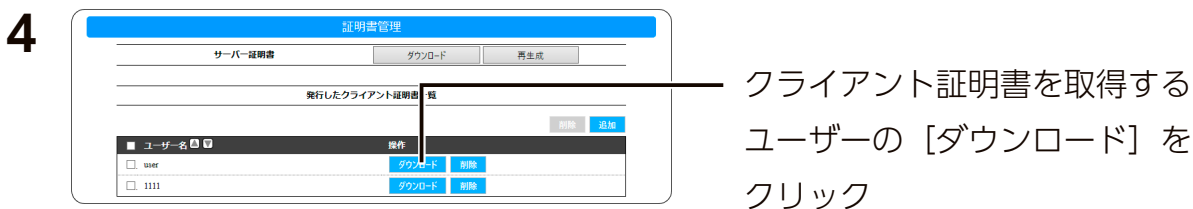
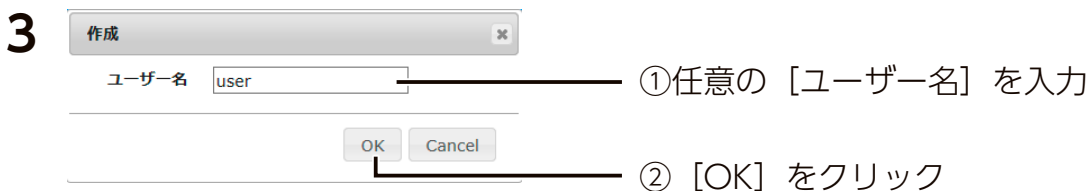
2



サーバー証明書の
[ダウンロード] を
クリック

以上で、サーバー証明書の発行は完了です。

- 1 設定画面を開きホームから [RADIUS サーバー] → [証明書管理] をクリック



以上で、クライアント証明書の発行は完了です。

クライアント証明書の管理

クライアント証明書をダウンロードする場合は、各ユーザーの [ダウンロード] をクリックします。

クライアント証明書を削除する場合は、削除するユーザーの [削除] をクリックします。

また、複数の証明書を同時削除する場合は、削除するユーザーにチェックを入れて、右上の [削除] をクリックします。

クライアント証明書を再発行する場合は、登録済みのクライアント証明書を削除したうえで、改めて登録しなおしてください。

その後、ダウンロードしてクライアント機器にインストールしてください。

ログ・お知らせ一覧

※レベルが [情報] のメッセージコードは、システムログには表示されません。

※ SNMP トラップで送信されるメッセージコードには "." は含まれません。

カテゴリ	メッセージコード	レベル	メッセージ	液晶表示	説明	お知らせ	メール通知	NarSuS通知	SNMPトラップ
RADIUSサーバー	7900-0000	情報	設定を変更しました。		設定変更が正常に完了した。	—	—	—	—
	7900-0010	情報	実行を開始しました。		RADIUS サーバーの実行を開始した。	あり	—	—	あり
	7900-0011	情報	実行を停止しました。		RADIUS サーバーの実行を停止した。	あり	—	—	あり
	7900-0020	情報	ユーザー名 認証成功 (代理認証機器: 代理認証機器 IP アドレス)		認証に成功した。	—	—	—	—
	7900-0021	情報	MAC アドレス 認証成功 (代理認証機器: 代理認証機器 IP アドレス)		認証に成功した。	—	—	—	—
	7903-0000	警告	システムが処理中です。しばらく待ってからもう一度操作をやり直してください。		他の処理中のため、指定された処理を行えなかった。	—	—	—	—
	7904-0000	警告	設定変更に失敗しました。		設定変更に失敗した。	—	—	—	—
	7904-0010	警告	実行の開始に失敗しました。	実行開始失敗	RADIUS サーバーの実行の開始に失敗した。	あり	—	—	あり
	7904-0011	警告	実行の停止に失敗しました。	実行停止失敗	RADIUS サーバーの実行の停止に失敗した。	あり	—	—	あり
	7905-0000	警告	ユーザー名 認証失敗 (代理認証機器: 代理認証機器 IP アドレス)	認証失敗	認証に失敗した。	あり	あり	—	あり
	7905-0001	警告	MAC アドレス 認証失敗 (代理認証機器: 代理認証機器 IP アドレス)	認証失敗	認証に失敗した。	あり	あり	—	あり

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freeradius
-----

This package was debianized by Chad Miller <cmiller@debian.org> on
Fri, 24 Nov 2000 16:25:57 -0500.
The packaging was rearranged by Paul Hampson <Paul.Hampson@anu.edu.au> on
Sun, 4 May 2003 03:51:20 +1000
The packaging was revamped by Stephen Gran <sgran@debian.org> on
Sat, 15 Mar 2008 16:26:51 +0000.

It was downloaded from http://www.freeradius.org/

FreeRADIUS is the result of the work done by a large number of
people. The major contributors are listed here.

Miquel van Smoorenburg <miquels@cistron.nl>
Wrote the original Cistron server, and started the FreeRADIUS
source tree.

Alan DeKok <aland@ox.org>
Registered and maintains www.freeradius.org. Wrote the module
code. Made the server threaded. Maintains the autoconf and
libtool scripts for the server.

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Contributed many patches for proxying, replication, realm
support.

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LDAP module.

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Wrote the original code which was the basis for the PAM module.

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Kerberos authentication module.

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Netscape-MTA-MDS authentication module.

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Contributed the 'dialup_admin' PHP server administration code.

Chris Brotos <cbrotos@starnetusa.net>
Memory allocation debugging and proxy enhancements.

Copyright:

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version.

On Debian systems, the complete text of the GNU General Public License can be
found in /usr/share/common-licenses/GPL-2 file.

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```

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On Debian systems, the complete text of the GNU Lesser General Public License can be found in /usr/share/common-licenses/LGPL.

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src/LICENSE.openssl includes a modification to the main LICENSE file, which is GPLv2. It applies only to the files in the "src" directory. (That directory contains the source code which has links to OpenSSL and from which the Debian binaries are produced.)

In addition, as a special exception, the copyright holders give permission to link the code of this program with the OpenSSL library, and distribute linked combinations including the two. You must obey the GNU General Public License in all respects for all of the code used other than OpenSSL. If you modify file(s) with this exception, you may extend this exception to your version of the file(s), but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version. If you delete this exception statement from all source files in the program, then also delete it here.

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freeradius-common
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Chris Brotos <cbrotos@starnetusa.net>
Memory allocation debugging and proxy enhancements.

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version.

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found in /usr/share/common-licenses/GPL-2 file.

--

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--

src/LICENSE.openssl includes a modification to the main LICENSE file, which is GPLv2. It applies only to the files in the "src" directory. (That directory contains the source code which has links to OpenSSL and from which the Debian binaries are produced.)

In addition, as a special exception, the copyright holders give permission to link the code of this program with the OpenSSL library, and distribute linked combinations including the two. You must obey the GNU General Public License in all respects for all of the code used other than OpenSSL. If you modify file(s) with this exception, you may extend this exception to your version of the file(s), but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version. If you delete this exception statement from all source files in the program, then also delete it here.

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freeradius-utils
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Wrote the original Cistron server, and started the FreeRADIUS
source tree.

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Registered and maintains www.freeradius.org. Wrote the module
code. Made the server threaded. Maintains the autoconf and
libtool scripts for the server.

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Contributed many patches for proxying, replication, realm
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Wrote the original code which was the basis for the PAM module.
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Chris Parker <cparker@starnetusa.net>
Configuration parser enhancements, 'rlm_attr_filter' module, and
proxy enhancements.

Kostas Kalevras <kkalev@noc.ntua.gr>
Contributed the 'dialup_admin' PHP server administration code.

Chris Brotos <cbrotos@starnetusa.net>
Memory allocation debugging and proxy enhancements.

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libgdbm-dev

This is Debian GNU's prepackaged version of the FSF's GNU DBM library.

This package was put together by James Troup <james@nocrew.org> from
the GNU sources:

<http://ftp.gnu.org/pub/gnu/gdbm/gdbm-1.8.3.tar.gz>

It was previously maintained by Ray Dassen <jdassen@wi.LeidenUniv.nl>,
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libiodbc2

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The Debian package is currently maintained by Kurt Roeckx <kurt@roeckx.be>

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+ Torsten Landschoff <torsten@debian.org>

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The saslfinger utility was downloaded from
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