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最終頁に続く

(54) 【発明の名称】 電話番号情報の自動作成装置およびその方法

(57) 【特許請求の範囲】

【請求項1】

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する記憶装置と、

前記記憶装置から番号テーブルを読み出し、IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に発呼し、

発呼側から着呼側のセッション イニシエーション プロトコルを使うサーバに発呼し、接続がなされた場合、発呼側で、着呼側端末が鳴動前に、着呼側電話番号が、事業者により払い出されている有効な番号か払い出されていない無効な番号か、を判定し、

前記記憶装置に記憶する通信ログ記憶手段と、を備えたことを特徴とする電話番号情報の自動作成装置。

【請求項2】

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する記憶装置と、

前記記憶装置から番号テーブルを読み出し、IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に接続されたIP電話端末または公衆回線網に接続された固定電話端末若しくは携帯電話網に接続された携帯電話端末に発呼し、

発呼側から着呼側のセッション イニシエーション プロトコルを使うサーバに発呼し、接続がなされた場合、発呼側で、着呼側端末が鳴動前に、着呼側電話番号が、事業者により払い出されている有効な番号か払い出されていない無効な番号か、を判定し、

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前記記憶装置に記憶する通信ログ記憶手段と、を備えたことを特徴とする電話番号情報の自動作成装置。

【請求項 3】

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する記憶装置と、

前記記憶装置から番号テーブルを読み出し、IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に接続されたIP電話端末または公衆回線網に接続された固定電話端末若しくは携帯電話網に接続された携帯電話端末に発呼し、
発呼側から着呼側のセッション イニシエーション プロトコルを使うサーバに発呼し、
接続がなされた場合、発呼側で、着呼側端末が鳴動前に、着呼側電話番号が、事業者により払い出されている有効な番号か払い出されていない無効な番号か、を判定し、
かつ、着呼側電話番号が未使用電話番号か、を判定しながら収集し、

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前記記憶装置に記憶する通信ログ記憶手段と、を備えたことを特徴とする電話番号情報の自動作成装置。

【請求項 4】

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する工程と、

前記記憶させる工程から番号テーブルを読み出し、IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に発呼する工程と、

発呼側から着呼側のセッション イニシエーション プロトコルを使うサーバに発呼し、
接続がなされた場合、発呼側で、着呼側端末が鳴動前に、着呼側電話番号が、事業者により払い出されている有効な番号か払い出されていない無効な番号か、を判定し、

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前記記憶する工程に記憶する通信ログ記憶工程と、を備えたことを特徴とする電話番号情報の自動作成方法。

【請求項 5】

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する工程と、

前記記憶させる工程から番号テーブルを読み出し、IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に接続されたIP電話端末または公衆回線網に接続された固定電話端末若しくは携帯電話網に接続された携帯電話端末に発呼する工程と、

発呼側から着呼側のセッション イニシエーション プロトコルを使うサーバに発呼し、
接続がなされた場合、発呼側で、着呼側端末が鳴動前に、着呼側電話番号が、事業者により払い出されている有効な番号か払い出されていない無効な番号か、を判定し、

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前記記憶する工程に記憶する通信ログ記憶工程と、を備えたことを特徴とする電話番号情報の自動作成方法。

【請求項 6】

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する工程と、

前記記憶装置から番号テーブルを読み出し、IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に接続されたIP電話端末または公衆回線網に接続された固定電話端末若しくは携帯電話網に接続された携帯電話端末に発呼する工程と、

発呼側から着呼側のセッション イニシエーション プロトコルを使うサーバに発呼し、
接続がなされた場合、発呼側で、着呼側端末が鳴動前に、着呼側電話番号が、事業者により払い出されている有効な番号か払い出されていない無効な番号か、を判定し、

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かつ、着呼側電話番号が未使用電話番号か、を判定しながら収集し、

前記記憶する工程に記憶する通信ログ記憶工程と、を備えたことを特徴とする電話番号情報の自動作成方法。

【発明の詳細な説明】

【技術分野】

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【 0 0 0 1 】

本発明は、電話番号情報の自動作成装置およびその方法に関する。例えば、株式会社クローバー・ネットワーク・コムが提供する「DocBell（登録商標）」のような全国に流通するであろう電話番号情報を記憶するコンピュータによる電話番号情報の自動作成装置およびその方法に関する。

【 背景技術 】

【 0 0 0 2 】

従来の電話番号履歴調査システムは、例えば、端末と通信回線を通じて接続し、電話番号の利用履歴を調査する電話番号履歴調査システムにおいて、全国に流通する電話番号に対してISDN回線を通じてオートダイヤルして得た利用状況を示す理由表示データおよび移転先電話番号を、各電話番号に対応させてオートダイヤルした調査日と共に履歴情報として登録する電話番号履歴データベースと、電話番号履歴データベースの履歴情報から抽出した移転の理由表示データを有する電話番号を移転元電話番号として登録し、この電話番号の移転の調査日および移転先電話番号を移転情報として登録する移転情報データベースと、端末から通信回線を通じて調査番号を受信し、この調査番号と一致する電話番号の实在期間を電話番号履歴データベースの履歴情報から演算し、この实在期間が所定期間に満たないときは移転情報データベースの移転情報から調査番号と一致する移転先電話番号の移転元電話番号を読み出し、この移転元電話番号と一致する電話番号の实在期間を電話番号履歴データベースの履歴情報から演算し、調査番号と一致する電話番号の实在期間と連結した連結实在期間を演算出力する演算処理部と、演算処理部が演算出力した連結实在期間を端末へ通信回線を通じて返信する通信部と、を備えていた（特許文献、参照）。

【 先行技術文献 】

【 特許文献 】

【 0 0 0 3 】

特開 2 0 0 9 - 5 5 5 1 2 号公報

特許第 3 9 9 8 2 8 4 号公報

特開平 1 0 - 9 8 5 1 7 号公報

特開平 3 - 2 7 0 3 5 4 号公報

【 発明の概要 】

【 発明が解決しようとする課題 】

【 0 0 0 4 】

しかしながら、従来の電話番号情報の自動作成装置では、例えば全国に流通する固定および携帯電話番号に発呼する場合、電話番号プリフェクス「0」に続く桁数から算出した約99億9千9百9十九件の論理値番号の中から総務省が許可している市外および市内局番に絞り込み約4億2千万件の電話番号リストを生成し、この電話番号リストを読み出しながらコンピュータがISDN回線網に発呼する場合、着呼側の端末が転送電話やMNP（マルチナンバーポータビリティ）の電話番号を含むので、理由表示番号を取得してから直ちにISDN回線を切断しても全体の約0.005%の確立で課金されてしまうという課題が存在していた。例えば、月間200万円程度の課金が発生するため、電話番号情報の自動作成装置の月間稼働費用が低減し難いという課題が存在する。また、近年の電気通信技術の進展によりアナログ回線網からデジタル回線網に推移し、これからはFTTH（光ファイバ）を利用したIP電話網を構築する計画が推進され、従来のアナログ電話機が利用している銅線（ドライ・カッパー）からFTTH（光ファイバ）を利用する公衆回線網が全国に普及することが予想される。

【 0 0 0 5 】

そして、従来のISDN回線技術を用いた電話番号情報の自動作成装置に代わる新たな電話番号情報の自動作成装置が切望されている。つまり、アナログ回線信号を利用する第一世代の電話番号情報取得技術からISDN回線信号を利用する第二世代の電話番号情報取得技術に移行し、近い将来はIP電話回線信号を利用する第三世代の電話番号情報取得

技術に対応させることも本発明の技術的な課題である。

【 0 0 0 6 】

本発明は、このような課題に対応してなされたものであり、電話会社やインターネット・サービス・プロバイダに設置されている SIP (Session Initiation Protocol) というプロトコルを使う SIP サーバにコンピュータを用いて電話を発呼し、IP 電話アダプタが SIP サーバに電話番号を含んだメッセージを送り、SIP サーバが着呼側の IP アドレスを割り出して、発呼側のコンピュータと着呼側の電話機を含む通信機器との間で通信を確立する。

【 0 0 0 7 】

そして、発呼している電話番号が払い出されている「有効」、または払い出されていない「無効」の電話番号なのか否かをコンピュータを用いて IP 電話網の応答信号から自動的に特定し電子的に記憶媒体へ記録することができる電話番号情報の自動作成装置およびその方法を提供することを目的とする。

【課題を解決するための手段】

【 0 0 0 8 】

上記した課題を解決するために、本発明の電話番号情報の自動作成装置は、例えば図 1 に示すように、国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する記憶装置と、前記記憶装置から番号テーブルを読み出し、IP 電話アダプタに接続されたオートダイヤル発信手段を用いて IP 電話網に発呼し、発呼側から着呼側のセッション イニシエーション プロトコルを使うサーバに発呼し、接続がなされた場合、発呼側で、着呼側端末が鳴動前に、着呼側電話番号が、事業者により払い出されている有効な番号か払い出されていない無効な番号か、を判定し、前記記憶装置に記憶する通信ログ記憶手段と、を備える。

【 0 0 0 9 】

本発明の電話番号情報の自動作成装置は、例えば、図 1 に示すように、国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶する記憶装置 12 と、記憶装置 12 から番号テーブルを読み出し、IP 電話アダプタ 14 に接続されたオートダイヤル発信手段 16 を用いて IP 電話網 18 に発呼したときの送受信情報を収集し記憶装置 12 に記憶する通信ログ記憶手段 (Asterisk1.4) と、を備える。

このように構成すると、IP 網 18 の送受信情報から発呼している電話番号が電気通信事業者から払いだされている有効な電話番号なのか、電気通信事業者から払いだされていない無効な電話番号なのか、正確に判断することができるので、毎月または隔月若しくは四半期に一回の所定の間隔で発呼し電話番号履歴を記憶装置に記憶することができる。また、本実施態様では送信用および受信用の PC を別個に設けたが、本発明はこの 2 台の PC に限定されず、例えばデュアル・プロセッサを用いた単体のワークステーションを用いて実施することもできる。

【発明の効果】

【 0 0 1 0 】

また、電話番号情報の自動作成方法は、

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶装置に記憶させ、前記記憶装置から番号テーブルを読み出し、IP 電話アダプタに接続されたオートダイヤル発信手段を用いて IP 電話網に発呼したときの送受信情報を通信ログ記憶手段により収集し、

発呼側電話番号が有効か無効かを発呼側電話端末が鳴動前に判定し、前記記憶装置に記憶する工程を含む。

また、他の電話番号情報の自動作成方法は、

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国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶装置に記憶させ、
前記記憶装置から番号テーブルを読み出し、IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に接続されたIP電話端末または公衆回線網に接続された固定電話端末若しくは携帯電話網に接続された携帯電話端末に発呼したときの送受信情報を通信ログ記憶手段により収集し、
発呼側電話番号が有効か無効かを発呼側電話端末が鳴動前に判定し、前記記憶装置に記憶する工程を含む。

さらに他の電話番号情報の自動作成方法は、

国内電話番号を特定するプリフェクス「0」番から始まる予め電話番号が存在すると想定される番号の番号テーブルを記憶装置に記憶させ、

前記憶装置から番号テーブルを読み出し、

IP電話アダプタに接続されたオートダイヤル発信手段を用いてIP電話網に接続されたIP電話端末または公衆回線網に接続された固定電話端末若しくは携帯電話網に接続された携帯電話端末に発呼したときの送受信情報から、発呼側電話番号が未使用電話番号かを発呼側電話端末が鳴動前に通信ログ記憶手段により判定しながら収集し、

前記記憶装置に記憶する工程を含む。

以上のように、電話番号情報の自動作成装置、電話番号情報の自動作成方法は、発呼する電話番号が払い出されている「有効」、または払い出されていない「無効」の電話番号なのか否かをIP電話網の応答信号から自動的に特定し電子的記憶媒体に記録することができるので、電話番号の履歴調査を的確に且つ無用な課金を回避しながら実行することができる。

【図面の簡単な説明】

【0011】

【図1】本発明の電話番号情報の自動作成装置のブロック図。

【図2】本発明の電話番号情報の自動作成装置のブロック図。

【図3】本発明の電話番号情報の自動作成装置のブロック図。

【図4】本発明の電話番号情報の自動作成装置のブロック図。

【図5】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【図6】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【図7】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【図8】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【図9】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【図10】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【図11】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【図12】本発明の電話番号情報の自動作成装置の動作シーケンスを示す図。

【発明を実施するための形態】

【0012】

本発明の実施の一形態を図1乃至図12に基づいて説明する。本実施形態の電話番号情報の自動作成装置10は、概略的には、パーソナルコンピュータまたはワークステーションを用いてIP網へアクセスして一般固定電話器、携帯電話端末、IP電話端末のような電話通信機器の電話番号情報を逐次記憶することができる。

【0013】

図1は、本発明の一実施形態の電話番号情報の自動作成装置の全体構成を概略的に示すシステム構成図である。図示するように、電話番号情報の自動作成装置10は、発信用のPc one 10 a、通信ログ記録用のP C t w o 1 0 b、ハードディスクやフラッシュメモリが適用できる記憶装置12、不図示のCPUが実行するコンピュータソフトウェアである通信ログ記憶手段20 (Asterisk1.4)を備え、

P c o n e 1 0 a はIPアドレス「192.168.0.3」が割り振られ、P C t w o 1 0 b はIPアドレス「192.168.0.6」が割り振られ、共にLANケーブルを

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介してオートダイヤル発信手段 16 に接続している。

【0014】

オートダイヤル発信手段 16 は、IP 電話アダプタ 14 に接続され、IP 電話網 18 に接続された IP 電話端末 22 または公衆回線網 24 に接続された固定電話器 26 若しくは携帯電話網に接続された携帯電話端末 28 に発呼したときの送受信情報を収集し、PCt w o 1 0 b が通信ログ記憶手段 20 であるコンピュータソフトウェア (Asterisk1.4) を実行し通信ログを記憶装置 12 に記憶することができる。このような部材または回路は不図示の中央処理装置 CPU またはデジタルシグナルプロセッサにより制御することもできる。

【0015】

電話番号情報の自動作成装置 10 は、P C o n e 1 0 a を用いてコンピュータソフトウェアの「X - L i t e 3 . 0」を起動させ、オートダイヤル発信装置 16 および IP 電話アダプタ 14 から S I P サーバ 30 を経由させて IP 電話端末 22、一般固定電話器 26、携帯電話端末 28 へ発呼し、着呼側の端末と接続した場合は電話呼び出しの初期過程で通信回線を自動的に切断する。

【0016】

一方、電話番号情報の自動作成装置 10 は、着呼側の端末と接続できないときには、IP 網 18 から返信されるエラー情報を取得し通信回線を切断処理する。

【0017】

電話番号情報の自動作成装置 10 は、着呼側の端末と接続できる若しくは接続できない状態でも IP 網 18 への送受信情報 (例えば、リクエスト、レスポンスが該当する。) を通信ログ記憶手段 20 (Asterisk1.4) が自動的に記憶装置 12 へログファイルとして記憶する。なお、ヘッドホンマイク 32 を使用することでオペレータは送受信信号を音声信号で送受信することもできる。

【0018】

図 2 は、本発明の一実施形態の電話番号情報の自動作成装置の全体構成を概略的に示すシステム構成図である。上述した図 1 の電話情報入力装置 10 と重複する部材は同一または類似の符号で示すので重複する説明は省略する。図 2 に示す IP 網 18 では S I P サーバを使わないシンプルな構成を示す。IP 電話アダプタ 14 a および IP 電話アダプタ 14 b を介して IP 網 18 に電話番号情報の自動作成装置 10 である D o c B e l l (登録商標) と着信側の B さんの電話器 22 が接続している態様を図示してている。

【0019】

自動作成装置 10 から B さんへ電話を発呼した場合、IP 電話アダプタ 14 a が、B さんの IP 電話アダプタ 14 b に「ダイヤルしました」というメッセージを IP 網 18 を介して送信し、このメッセージを B さんの IP 電話アダプタ 14 b が受信することで B さんの電話器 22 のベルを鳴動させるシーケンスを実行する。この場合、B さんの IP 電話アダプタ 14 b が自動作成装置 10 に接続されている IP 電話アダプタ 14 a に、「ベルを鳴らしている最中である」とメッセージを送信する前に、B さんの電話番号の稼動状況を取得することができる。つまり、B さんの電話器 22 を鳴動させる前に電気通信事業が払い出している電話番号が否かを判定することができる。図示している IP 電話アダプタ 14 a および 14 b は共に両者の IP アドレスを予め記録しているため、自動的に自動作成装置 10 から B さんへ電話を発呼し通信することができる。

【0020】

図 3 は、本発明の一実施形態の電話番号情報の自動作成装置の全体構成を概略的に示すシステム構成図である。上述した図 1 の電話情報入力装置 10 と重複する部材は同一または類似の符号で示すので重複する説明は省略する。図 3 に示す IP 網 18 では S I P サーバ 30 を使用して B さんの電話番号に対応する IP アドレスを探索し電話情報入力装置 10 と B さんの電話器 22 との間で電話通信を実行することができる。勿論、図示する如く音声による通話も出来ることは言うまでもない。

【0021】

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図4は、本発明の一実施形態の電話番号情報の自動作成装置の全体構成を概略的に示すシステム構成図である。上述した図1の電話情報入力装置10と重複する部材は同一または類似の符号で示すので重複する説明は省略する。図4に示すIP網18ではSIPサーバ30を使用して電話情報入力装置10からBさんの電話番号に対応するIPアドレスを探索し電話情報入力装置10とBさんの電話器22との間で加入者電話網24を介して電話通信を実行することができると共に、NTT（登録商標）の「ひかり電話サービス」やKDDI（登録商標）の「ひかりoneサービス」を利用して、IP電話アダプタ14bに接続されている電話器22へ電話をかけることもできる。要は、電話情報入力装置10がIP網に接続している電話回線（交換局のデジタル交換機）へアクセスし着呼側の電話番号が有効か無効か着呼側の端末を鳴動させる前に自動的に判定することができる。

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【0022】

図5は、IP既存電話番号のシーケンス図である、図示するPCone10a、PCtwo10b、およびSIPサーバ30との間で相互に伝送される送受信信号のシーケンス・ログを表1並びに表2に示す。

【0023】

【表1】

5.(1).①_IP_既存No_Asterisk07

※この列は見易くする為の記述です
実際の列上では出力されません

(1) ①_IP_既存No_Asterisk07

(接続後、発信側よりHangUp)

```

① [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 0: INVITE sip:05055590004@192.168.0.6 SIP/2.0 (42)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938,branch=z9hG4bK-d8754z-ee45791cce2d853b-1---d8754z--rport (91)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 4: To: "05055590004" <sip:05055590004@192.168.0.6> (46)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=5c0ae809 (45)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: ZjA0Njk3MzAzMmFmNmM4ZDEyN2RkZmY5ODY5ZjUzOTM. (53)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 1 INVITE (14)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 10: User-Agent: X-Lite release 11001 stamp 47546 (44)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 11: Content-Length: 417 (19)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 12: (0)
② [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 0: ACK sip:05055590004@192.168.0.6 SIP/2.0 (39)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938,branch=z9hG4bK-d8754z-ee45791cce2d853b-1---d8754z--rport (91)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 2: To: "05055590004" <sip:05055590004@192.168.0.6>;tag=as48957385 (61)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 3: From: "204" <sip:204@192.168.0.6>;tag=5c0ae809 (45)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: ZjA0Njk3MzAzMmFmNmM4ZDEyN2RkZmY5ODY5ZjUzOTM. (53)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 1 ACK (11)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 6: Content-Length: 0 (17)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 7: (0)
③ [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 0: INVITE sip:05055590004@192.168.0.6 SIP/2.0 (42)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938,branch=z9hG4bK-d8754z-6865db1f9c33f67c-1---d8754z--rport (91)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 4: To: "05055590004" <sip:05055590004@192.168.0.6> (46)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=5c0ae809 (45)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: ZjA0Njk3MzAzMmFmNmM4ZDEyN2RkZmY5ODY5ZjUzOTM. (53)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 2 INVITE (14)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 10: Proxy-Authorization: Digest username="204" realm="as nonce="0furi="sip:0 response= algorithm=MD5 (168)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 11: User-Agent: X-Lite release 11001 stamp 47546 (44)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 12: Content-Length: 417 (19)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 13: (0)
④ [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 0: INVITE sip:05055590004@voip54.nifty.com SIP/2.0 (47)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060,branch=z9hG4bK67587782 (59)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (54)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 3: To: <sip:05055590004@voip54.nifty.com> (38)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 5: Call-ID: 57c5486d29ca18ed36299210256581fb@nifty.com (51)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 6: CSeq: 102 INVITE (16)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 7: User-Agent: Asterisk PBX (24)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 8: Max-Forwards: 70 (16)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 9: (0)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 10: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 11: Supported: replaces (19)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 12: Content-Type: application/sdp (29)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 13: Content-Length: 235 (19)
| [Mar 26 11:06:35] DEBUG[29204] chan_sip.c: ### Header 14: (0)
⑤ [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060,received=115.177.35.254;branch=z9hG4bK67587782 (81)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (54)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05055590004@voip54.nifty.com> (38)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 57c5486d29ca18ed36299210256581fb@nifty.com (51)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
| 26 Mar 2009 02:06:57 GMT (35)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 8: l: 0 (4)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 9: (0)
⑥ [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060,received=115.177.35.254;branch=z9hG4bK67587782 (81)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (54)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05055590004@voip54.nifty.com> (38)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 57c5486d29ca18ed36299210256581fb@nifty.com (51)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 7: (0)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 9: Supported: replaces (19)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 10: l: 0 (4)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 11: Proxy-Authenticate: Digest realm="ntt.com" domain=" nonce="1 opaque=" stale=FALSE algorithm=MD5 (131)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 12: (0)
⑦ [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060,received=115.177.35.254;branch=z9hG4bK79ad6ca9 (81)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (54)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05055590004@voip54.nifty.com> (38)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 57c5486d29ca18ed36299210256581fb@nifty.com (51)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 103 INVITE (16)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
| [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
| 26 Mar 2009 02:06:57 GMT (35)

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【表 2】

5.(1)①_IP_既存No_Asterisk09'

```

↓ [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 8: l: 0 (4)
↓ [Mar 26 11:06:35] DEBUG[29087] chan_sip.c: ### Header 9: (0)
⑧ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 183 Session Progress (28)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK79ad6ca9 (81)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (52)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip:05055590004@voip54.nifty.com>;tag=4d3ae070 (50)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 4: i: 57c5486d29ca18ed36299210256581fb@nifty.com (45)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 6: c: application/sdp (18)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 7: l: 127 (6)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 8: (0)
⑨ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 180 Ringing (19)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK79ad6ca9 (81)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (52)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip:05055590004@voip54.nifty.com>;tag=4d3ae070 (50)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 4: i: 57c5486d29ca18ed36299210256581fb@nifty.com (45)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 6: l: 0 (4)
↓ [Mar 26 11:06:36] DEBUG[29087] chan_sip.c: ### Header 7: (0)
⑩ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 200 OK (14)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK79ad6ca9 (81)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (52)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip:05055590004@voip54.nifty.com>;tag=4d3ae070 (50)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 4: i: 57c5486d29ca18ed36299210256581fb@nifty.com (45)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 6: m: <sip:05055590004@10.124.237.43:5060;user=phone> (50)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 7: c: application/sdp (18)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 8: l: 127 (6)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 9: Record-Route:<sip:05055590004@voip54.nifty.com:5060;maddr=210.227.109.117> (74)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 10: Allow: INVITE
↓ ACK
↓ BYE
↓ CANCEL (28)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 11: x: 180;refresher=uas (20)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 12: (0)
⑪ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 0: ACK sip:05055590004@192.168.0.6 SIP/2.0 (39)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-8524f643ec49d350-1----d8754z-;rport (91)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 4: To: "05055590004" <sip:05055590004@192.168.0.6>;tag=as474f7066 (61)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=5c0ae809 (45)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: ZjAONjk3MzAzMmFmNmM4ZDEyN2RkZmY5ODY5ZjUzOTM. (53)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 2 ACK (11)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 8: Proxy-Authorization: Digest username="204"
↓ realm="asterisk" nonce="0f5a7da2" uri="sip:05055590004@192.168.0.6" response="26324b8ce4071f66d5c65b3753f6bc93"
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 9: User-Agent: X-Lite release 1100i stamp 47546 (44)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 10: Content-Length: 0 (17)
↓ [Mar 26 11:06:38] DEBUG[29087] chan_sip.c: ### Header 11: (0)
⑫ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 0: BYE sip:05055590004@192.168.0.6 SIP/2.0 (39)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-2f0fa25f910af54b-1----d8754z-;rport (91)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 4: To: "05055590004" <sip:05055590004@192.168.0.6>;tag=as474f7066 (61)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=5c0ae809 (45)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: ZjAONjk3MzAzMmFmNmM4ZDEyN2RkZmY5ODY5ZjUzOTM. (53)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 3 BYE (11)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 8: Proxy-Authorization: Digest username="204"
↓ realm="asterisk" nonce="0f5a7da2" uri="sip:05055590004@192.168.0.6" response="8a2ef8e88b417e882397326798e9201c" algorithm=MD5 (168)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 9: User-Agent: X-Lite release 1100i stamp 47546 (44)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 10: Reason: SIP:description="User Hung Up" (38)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 11: Content-Length: 0 (17)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 12: (0)
⑬ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 200 OK (14)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK2c7c2a59 (81)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as143299e2 (52)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip:05055590004@voip54.nifty.com>;tag=4d3ae070 (50)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 4: i: 57c5486d29ca18ed36299210256581fb@nifty.com (45)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 104 BYE (13)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 6: l: 0 (4)
↓ [Mar 26 11:06:42] DEBUG[29087] chan_sip.c: ### Header 7: (0)

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【 0 0 2 5 】

図 6 は、IP 未登録電話番号のシーケンス図である、図示する PCone10a、PCtwo10b、および SIP サーバ 30 との間で相互に伝送される送受信信号のシーケンス・ログを表 3 並びに表 4 に示す。

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【 0 0 2 6 】

【 表 3 】

5.(1).② IP 未登録No. Asterisk①

※この列は見易くする為の記述です
実際のログ上では出力されません

(1) ② IP 未登録No. Asterisk①

```

① [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 0: INVITE sip:05012345678@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-2b1353776824d767-1---d8754z--rport (81)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 4: To: "05012345678" <sip:05012345678@192.168.0.6> (46)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=77637922 (45)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: OTlyZDI4MDc5NWQwYTNiZTkzMl40DNiMjllYTBIQGQ. (53)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 1 INVITE (14)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGI SUBSCRI INFO (81)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 10: User-Agent: X-Lite release 1100l stamp 47546 (44)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 11: Content-Length: 419 (19)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 12: (0)
② [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 0: ACK sip:05012345678@192.168.0.6 SIP/2.0 (39)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-2b1353776824d767-1---d8754z--rport (81)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 2: To: "05012345678" <sip:05012345678@192.168.0.6>;tag=as08f08c05 (61)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 3: From: "204" <sip:204@192.168.0.6>;tag=77637922 (45)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: OTlyZDI4MDc5NWQwYTNiZTkzMl40DNiMjllYTBIQGQ. (53)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 1 ACK (11)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 6: Content-Length: 0 (17)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 7: (0)
③ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 0: INVITE sip:05012345678@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-de1ee379a103241d-1---d8754z--rport (81)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 11:16:01] DEBUG[29087] chan_sip.c: ### Header 4: To: "05012345678" <sip:05012345678@192.168.0.6> (46)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=77637922 (45)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: OTlyZDI4MDc5NWQwYTNiZTkzMl40DNiMjllYTBIQGQ. (53)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 2 INVITE (14)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGI SUBSCRI INFO (81)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 10: Proxy-Authorization: Digest username="204" realm="as nonce="0furi="sip:0e response= algorithm=MD5 (168)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 11: User-Agent: X-Lite release 1100l stamp 47546 (44)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 12: Content-Length: 419 (19)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 13: (0)
④ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 0: INVITE sip:05012345678@voip54.nifty.com SIP/2.0 (47)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK6eb8f38e (59)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as26d9f0be (54)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 3: To: <sip:05012345678@voip54.nifty.com> (38)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 5: Call-ID: 3d744dd06c2c914055ded5b40b0ce9b2@nifty.com (51)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 6: CSeq: 102 INVITE (16)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 7: User-Agent: Asterisk PBX (24)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 8: Max-Forwards: 70 (16)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 9: Date: Thu
26 Mar 2009 02:06:35 GMT (35)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 10: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRI NOTIFY (66)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 11: Supported: replaces (19)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 12: Content-Type: application/sdp (29)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 13: Content-Length: 235 (19)
↓ [Mar 26 11:16:02] DEBUG[29226] chan_sip.c: ### Header 14: (0)
⑤ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK6eb8f38e (81)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as26d9f0be (54)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05012345678@voip54.nifty.com> (38)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 3d744dd06c2c914055ded5b40b0ce9b2@nifty.com (51)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
26 Mar 2009 02:06:57 GMT (35)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 8: l: 0 (4)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 9: (0)
⑥ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK6eb8f38e (81)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as26d9f0be (54)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05012345678@voip54.nifty.com> (38)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 3d744dd06c2c914055ded5b40b0ce9b2@nifty.com (51)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
26 Mar 2009 02:06:35 GMT (35)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRI NOTIFY (66)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 9: Supported: replaces (19)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 10: l: 0 (4)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 11: Proxy-Authenticate: Digest realm="ntt.com" domain=" nonce="1 opaque=" stale=FALSE algorithm=MD5 (131)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 12: (0)
⑦ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK69297096 (81)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as26d9f0be (54)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05012345678@voip54.nifty.com> (38)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 3d744dd06c2c914055ded5b40b0ce9b2@nifty.com (51)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 2 7 】

【表 4】

5.(1)②.IP_未登録No_Asterisk07

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| [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
| 26 Mar 2009 02:06:57 GMT (35)
| [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 8: t: 0 (4)
| [Mar 26 11:16:02] DEBUG[29087] chan_sip.c: ### Header 9: (0)
⑧ | [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 410 Gone (16)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK69297096 (81)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip.05035991183@nifty.com>;tag=as26d9f0be (52)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip.05012345678@voip54.nifty.com>;tag=9f118a60 (50)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 4: i: 3d7d4dd06c2c914055ded5b40b0ce9b2@nifty.com (45)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 6: l: 0 (4)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 7: (0)
⑨ | [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 0: ACK sip.05012345678@192.168.0.6 SIP/2.0 (39)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-de1ee379a103241d-1---d8754z--rport (91)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 2: To: "05012345678" <sip.05012345678@192.168.0.6>;tag=as1ca8c02c (61)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 3: From: "204" <sip.204@192.168.0.6>;tag=77637922 (45)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: OTlyZDI4MDc5NWQwYTNiZTkzZmI4ODNiMjllYTBlOGQ. (53)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 2 ACK (11)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 6: Content-Length: 0 (17)
| [Mar 26 11:16:03] DEBUG[29087] chan_sip.c: ### Header 7: (0)

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【 0 0 2 8 】

図 7 は、IP 接続不能の電話番号のシーケンス図である、図示する PCone10a、PCtwo10b、および SIP サーバ 30 との間で相互に伝送される送受信信号のシーケンス・ログを表 5 並びに表 6 に示す。

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【 0 0 2 9 】

【 表 5 】

5.(1).③.IP_接続不可能No.Asteriskログ

※この列は見易くする為の記述です
実際のログ上では出力されません。

(1) ③ IP_接続不可能No.Asteriskログ

```

① [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 0: INVITE sip:05075569700@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-5727273603160154-1---d8754z--rport (91)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 4: To: "05075569700" <sip:05075569700@192.168.0.6> (46)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=250b6165 (45)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: OWU1NjM5NzIxMjdiZTE2NjViMjY0NjgzNWRkZDM2NmU. (53)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 1 INVITE (14)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 10: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 11: Content-Length: 419 (19)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 12: (0)
② [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 0: ACK sip:05075569700@192.168.0.6 SIP/2.0 (39)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-5727273603160154-1---d8754z--rport (91)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 2: To: "05075569700" <sip:05075569700@192.168.0.6>;tag=as4603e3fe (61)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 3: From: "204" <sip:204@192.168.0.6>;tag=250b6165 (45)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: OWU1NjM5NzIxMjdiZTE2NjViMjY0NjgzNWRkZDM2NmU. (53)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 1 ACK (11)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 6: Content-Length: 0 (17)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 7: (0)
③ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 0: INVITE sip:05075569700@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-d1175d4edb212f5c-1---d8754z--rport (91)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 4: To: "05075569700" <sip:05075569700@192.168.0.6> (46)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=250b6165 (45)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 6: Call-ID: OWU1NjM5NzIxMjdiZTE2NjViMjY0NjgzNWRkZDM2NmU. (53)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 7: CSeq: 2 INVITE (14)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 10: Proxy-Authorization: Digest username="204" realm="as nonce="0furi="sip;response=algorithm=MD5 (168)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 11: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 12: Content-Length: 419 (19)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 13: (0)
④ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 0: INVITE sip:05075569700@voip54.nifty.com SIP/2.0 (47)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK5212f812 (59)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (54)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 3: To: <sip:05075569700@voip54.nifty.com> (38)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 5: Call-ID: 7b07334e252804ee5def80710421e119@nifty.com (51)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 6: CSeq: 102 INVITE (16)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 7: User-Agent: Asterisk PBX (24)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 8: Max-Forwards: 70 (16)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 9: Date: Thu
26 Mar 2009 02:06:35 GMT (35)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 10: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 11: Supported: replaces (19)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 12: Content-Type: application/sdp (29)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 13: Content-Length: 235 (19)
↓ [Mar 26 11:22:25] DEBUG[29244] chan_sip.c: ### Header 14: (0)
⑤ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK5212f812 (81)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (54)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05075569700@voip54.nifty.com> (38)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 7b07334e252804ee5def80710421e119@nifty.com (51)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
26 Mar 2009 02:06:35 GMT (35)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 8: I: 0 (4)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 9: (0)
⑥ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK5212f812 (81)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (54)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05075569700@voip54.nifty.com> (38)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 7b07334e252804ee5def80710421e119@nifty.com (51)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
26 Mar 2009 02:06:35 GMT (35)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 9: Supported: replaces (19)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 10: I: 0 (4)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 11: Proxy-Authenticate: Digest realm="ntt.com" domain=" nonce="f opaque=" stale=FALSE algorithm=MD5 (131)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 12: (0)
⑦ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK7134edb4 (81)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (54)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05075569700@voip54.nifty.com> (38)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 7b07334e252804ee5def80710421e119@nifty.com (51)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 3 0 】

【表 6】

5.(1)③_IP_接続不可能No_Asterisk07

```

↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 7: Date: Thu
↓ 26 Mar 2009 02:06:57 GMT (35)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 8: l: 0 (4)
↓ [Mar 26 11:22:25] DEBUG[29087] chan_sip.c: ### Header 9: (0)
⑧ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 183 Session Progress (28)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK7134edb4 (81)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (52)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip:05075569700@voip54.nifty.com>;tag=83e8ea20 (50)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 4: i: 7b07334e252804ee5def80710421e119@nifty.com (45)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 6: c: application/sdp (18)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 7: l: 119 (6)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 8: (0)
⑨ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 183 Session Progress (28)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK7134edb4 (81)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (52)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip:05075569700@voip54.nifty.com>;tag=83e8ea20 (50)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 4: i: 7b07334e252804ee5def80710421e119@nifty.com (45)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 6: l: 0 (4)
↓ [Mar 26 11:22:27] DEBUG[29087] chan_sip.c: ### Header 7: (0)
⑩ [Mar 26 11:22:57] DEBUG[29087] chan_sip.c: ### Header 0: (0)
Header 0情報のみ出力(Asteriskオリジナル仕様)
⑪ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 408 Request Timeout (27)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK7134edb4 (81)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (52)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 3: t: <sip:05075569700@voip54.nifty.com>;tag=83e8ea20 (50)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 4: i: 7b07334e252804ee5def80710421e119@nifty.com (45)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 6: l: 0 (4)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 7: (0)
⑫ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 0: ACK sip:05075569700@192.168.0.6 SIP/2.0 (39)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-d1175d4edb212f5c-1---d8754z--rport (91)
↓ ACK BYE CANCEL (28)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 2: To: "05075569700"<sip:05075569700@192.168.0.6>;tag=as39482ac2 (61)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 3: From: "204"<sip:204@192.168.0.6>;tag=250b6165 (45)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: OWU1NjM5NmZmMjdiZTE2NjViMWY0NjgzNWRkZDM2NmU. (53)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 2 ACK (11)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 6: Content-Length: 0 (17)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 7: (0)
⑬ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 0: SIP/2.0 481 Call Leg/Transaction Does Not Exist (47)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0d38e486 (81)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as4d54857a (54)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 3: To: <sip:05075569700@voip54.nifty.com>;tag=83e8ea20 (51)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 4: Call-ID: 7b07334e252804ee5def80710421e119@nifty.com (51)
↓ realm="as nonce="Of uri="sip:05 response=" algorithm=MD5 (168)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 5: CSeq: 104 BYE (13)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 7: l: 0 (4)
↓ [Mar 26 11:23:01] DEBUG[29087] chan_sip.c: ### Header 8: (0)

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【 0 0 3 1 】

図 8 は、一般固定の既存電話番号のシーケンス図である、図示する PCone10a、PCtwo10b、および SIPサーバ 30 との間で相互に伝送される送受信信号のシーケンス・ログを表 7 並びに表 8 に示す。

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【 0 0 3 2 】

【 表 7 】

5.(2).①.一般固定 通信可能No.AsteriskD'

※この列は見易くする為の記述です
実際のD'までは出力されません

(2)①一般固定 通信可能No.AsteriskD' (接続後、発信側よりHangUp)

```

① [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 0: INVITE sip:0453179311@192.168.0.6 SIP/2.0 (41)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-f74880053f038258-1---d8754z-rport (91)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 4: To: "0453179311" <sip:0453179311@192.168.0.6> (44)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=d748fb29 (45)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 6: Call-ID: MjIwNDY4NTMzOGU3MDRhZjFhOTA0YzgxZWY4YTA1MDA. (53)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 7: CSeq: 1 INVITE (14)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 10: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 11: Content-Length: 419 (19)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 12: (0)
② [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 0: ACK sip:0453179311@192.168.0.6 SIP/2.0 (38)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-f74880053f038258-1---d8754z-rport (91)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 2: To: "0453179311" <sip:0453179311@192.168.0.6>;tag=as79a1338f (59)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 3: From: "204" <sip:204@192.168.0.6>;tag=d748fb29 (45)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 4: Call-ID: MjIwNDY4NTMzOGU3MDRhZjFhOTA0YzgxZWY4YTA1MDA. (53)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 5: CSeq: 1 ACK (11)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 6: Content-Length: 0 (17)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 7: (0)
③ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 0: INVITE sip:0453179311@192.168.0.6 SIP/2.0 (41)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-eb72a978f171e3b-1---d8754z-rport (91)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 4: To: "0453179311" <sip:0453179311@192.168.0.6> (44)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=d748fb29 (45)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 6: Call-ID: MjIwNDY4NTMzOGU3MDRhZjFhOTA0YzgxZWY4YTA1MDA. (53)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 7: CSeq: 2 INVITE (14)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 10: Proxy-Authorization: Digest username="204" realm="as nonce="04uri="sip:04response=algorithm=MD5 (167)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 11: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 12: Content-Length: 419 (19)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 13: (0)
④ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 0: INVITE sip:0453179311@voip54.nifty.com SIP/2.0 (46)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK67fe999f (59)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (54)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 3: To: <sip:0453179311@voip54.nifty.com> (37)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 5: Call-ID: 25e2d816734203614572abc806e27106@nifty.com (51)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 6: CSeq: 102 INVITE (16)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 7: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 8: Max-Forwards: 70 (16)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 9: Date: Thu
26 Mar 2009 05:27:17 GMT (35)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 10: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 11: Supported: replaces (19)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 12: Content-Type: application/sdp (29)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 13: Content-Length: 235 (19)
↓ [Mar 26 14:27:17] DEBUG[30130] chan.sip.c:### Header 14: (0)
⑤ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK67fe999f (81)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (54)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 3: To: <sip:0453179311@voip54.nifty.com> (37)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 4: Call-ID: 25e2d816734203614572abc806e27106@nifty.com (51)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 7: Date: Thu
26 Mar 2009 05:27:40 GMT (35)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 8: I: 0 (4)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 9: (0)
⑥ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK67fe999f (81)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (54)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 3: To: <sip:0453179311@voip54.nifty.com> (37)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 4: Call-ID: 25e2d816734203614572abc806e27106@nifty.com (51)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 7: Date: Thu
26 Mar 2009 05:27:17 GMT (35)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 9: Supported: replaces (19)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 10: I: 0 (4)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 11: Proxy-Authenticate: Digest realm="ntt.com" domain=" nonce="1 opaque=" stale=FALSE algorithm=MD5 (131)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 12: (0)
⑦ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0b6f2aa5 (81)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (54)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 3: To: <sip:0453179311@voip54.nifty.com> (37)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 4: Call-ID: 25e2d816734203614572abc806e27106@nifty.com (51)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 14:27:17] DEBUG[30109] chan.sip.c:### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 3 3 】

【表 8】

5.(2)①一般固定 通信可能No.Asterisk07

```

↓ [Mar 26 14:27:17] DEBUG[30109] chan_sip.c: ### Header 7: Date: Thu
↓ [Mar 26 14:27:17] DEBUG[30109] chan_sip.c: ### Header 8: t: 0 (4)
↓ [Mar 26 14:27:17] DEBUG[30109] chan_sip.c: ### Header 9: (0)
⑧ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 0: SIP/2.0 183 Session Progress (28)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0b6f2aa5 (81)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (52)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 3: t: <sip:0453179311@voip54.nifty.com>;tag=577670b0 (49)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 4: i: 25e2d816734203614572abc806e27106@nifty.com (45)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 6: c: application/sdp (18)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 7: l: 119 (6)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 8: (0)
⑨ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 0: SIP/2.0 180 Ringing (19)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0b6f2aa5 (81)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (52)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 3: t: <sip:0453179311@voip54.nifty.com>;tag=577670b0 (49)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 4: i: 25e2d816734203614572abc806e27106@nifty.com (45)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 6: t: 0 (4)
↓ [Mar 26 14:27:19] DEBUG[30109] chan_sip.c: ### Header 7: (0)
⑩ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 0: SIP/2.0 200 OK (14)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0b6f2aa5 (81)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (52)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 3: t: <sip:0453179311@voip54.nifty.com>;tag=577670b0 (49)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 4: i: 25e2d816734203614572abc806e27106@nifty.com (45)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 6: m: <sip:0453179311@10.124.237.106:5060;user=phone> (50)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 7: c: application/sdp (18)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 8: l: 119 (6)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 9: Record-Route:<sip:0453179311@voip54.nifty.com:5060;maddr=210.227.109.117> (73)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 10: Allow: INVITE
↓ ACK BYE CANCEL (28)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 11: x: 180;refresher=uas (20)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 12: (0)
⑪ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 0: ACK sip:0453179311@192.168.0.6 SIP/2.0 (38)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-83565b656422d74c-1---d8754z--rport (91)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 4: To: "0453179311" <sip:0453179311@192.168.0.6>;tag=as3aa2b5c3 (59)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=d748fb29 (45)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 6: Call-ID: MjIwNDY4NTMzOGUzMDRhZjFhOTA0YzgxZWY4YTA1MDA. (53)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 7: CSeq: 2 ACK (11)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 8: Proxy-Authorization: Digest username="204"
↓ realm="as nonce="04uri="sip:04response= algorithm=MD5 (167)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 9: User-Agent: X-Lite release 1100! stamp 47546 (44)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 10: Content-Length: 0 (17)
↓ [Mar 26 14:27:24] DEBUG[30109] chan_sip.c: ### Header 11: (0)
⑫ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 0: BYE sip:0453179311@192.168.0.6 SIP/2.0 (38)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-024a034470665e72-1---d8754z--rport (91)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 4: To: "0453179311" <sip:0453179311@192.168.0.6>;tag=as3aa2b5c3 (59)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=d748fb29 (45)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 6: Call-ID: MjIwNDY4NTMzOGUzMDRhZjFhOTA0YzgxZWY4YTA1MDA. (53)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 7: CSeq: 3 BYE (11)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 8: Proxy-Authorization: Digest username="204"
↓ realm="as nonce="04uri="sip:04response= algorithm=MD5 (167)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 9: User-Agent: X-Lite release 1100! stamp 47546 (44)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 10: Reason: SIP:description="User Hung Up" (38)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 11: Content-Length: 0 (17)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 12: (0)
⑬ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 0: SIP/2.0 200 OK (14)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK61337b61 (81)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as78e74e88 (52)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 3: t: <sip:0453179311@voip54.nifty.com>;tag=577670b0 (49)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 4: i: 25e2d816734203614572abc806e27106@nifty.com (45)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 5: Cseq: 104 BYE (13)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 6: t: 0 (4)
↓ [Mar 26 14:27:27] DEBUG[30109] chan_sip.c: ### Header 7: (0)

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【 0 0 3 4 】

また、一般固定の未登録電話番号に発呼した場合、図示する PCone10a、PCtwo10b、および SIPサーバ30との間で相互に伝送される送受信信号のシーケンス・ログを表9並びに表10に示す。

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【 0 0 3 5 】

【 表 9 】

5.(2)②一般固定 未登録No_AsteriskD7

※この列は見易くする為の記述です
実際のログ上では出力されません

(2)②一般固定 未登録No_AsteriskD7

```

① [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 0: INVITE sip:0451234567@192.168.0.6 SIP/2.0 (41)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-a47d8d50a85f2a56-1---d8754z-rport (91)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 4: To: "0451234567" <sip:0451234567@192.168.0.6> (44)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=ab4f300c (45)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 6: Call-ID: NjEwNjk3YjJmZmYjg4ZGI4MzYwNDUyNWQwNTM5MmM. (53)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 7: CSeq: 1 INVITE (14)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGI SUBSCRI INFO (81)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 10: User-Agent: X-Lite release 1100l stamp 47546 (44)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 11: Content-Length: 419 (19)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 12: (0)
② [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 0: ACK sip:0451234567@192.168.0.6 SIP/2.0 (38)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-a47d8d50a85f2a56-1---d8754z-rport (91)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 2: To: "0451234567" <sip:0451234567@192.168.0.6>;tag=as1eaa7d92 (59)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 3: From: "204" <sip:204@192.168.0.6>;tag=ab4f300c (45)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: NjEwNjk3YjJmZmYjg4ZGI4MzYwNDUyNWQwNTM5MmM. (53)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 1 ACK (11)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 6: Content-Length: 0 (17)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 7: (0)
③ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 0: INVITE sip:0451234567@192.168.0.6 SIP/2.0 (41)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-0f36260560652539-1---d8754z-rport (91)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 4: To: "0451234567" <sip:0451234567@192.168.0.6> (44)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=ab4f300c (45)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 6: Call-ID: NjEwNjk3YjJmZmYjg4ZGI4MzYwNDUyNWQwNTM5MmM. (53)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 7: CSeq: 2 INVITE (14)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGI SUBSCRI INFO (81)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 10: Proxy-Authorization: Digest username="204"
↓ realm="as nonca=" i uri="sip:04response=algorithm=MD5 (167)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 11: User-Agent: X-Lite release 1100l stamp 47546 (44)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 12: Content-Length: 419 (19)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 13: (0)
④ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 0: INVITE sip:0451234567@voip54.nifty.com SIP/2.0 (46)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK1a23c61b (59)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as38591888 (54)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 3: To: <sip:0451234567@voip54.nifty.com> (37)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 5: Call-ID: 4b4d1fd6034eff3d492a5b3f31378cdc4@nifty.com (51)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 6: CSeq: 102 INVITE (16)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 7: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 8: Max-Forwards: 70 (16)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 9: Date: Thu
↓ 26 Mar 2009 05:30:04 GMT (35)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 10: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRI NOTIFY (66)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 11: Supported: replaces (19)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 12: Content-Type: application/sdp (29)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 13: Content-Length: 235 (19)
↓ [Mar 26 14:30:04] DEBUG[30145] chan_sip.c:### Header 14: (0)
⑤ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK1a23c61b (81)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as38591888 (54)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 3: To: <sip:0451234567@voip54.nifty.com> (37)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: 4b4d1fd6034eff3d492a5b3f31378cdc4@nifty.com (51)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 7: Date: Thu
↓ 26 Mar 2009 05:30:26 GMT (35)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 8: i: 0 (4)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 9: (0)
⑥ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK1a23c61b (81)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as38591888 (54)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 3: To: <sip:0451234567@voip54.nifty.com> (37)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: 4b4d1fd6034eff3d492a5b3f31378cdc4@nifty.com (51)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 7: Date: Thu
↓ 26 Mar 2009 05:30:04 GMT (35)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRI NOTIFY (66)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 9: Supported: replaces (19)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 10: i: 0 (4)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 11: Proxy-Authenticate: Digest realm="ntt.com"
↓ domain=" nonca=" i opaque=" stale=FAI algorithm=MD5 (131)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 12: (0)
⑦ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK7cf6af7d (81)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as38591888 (54)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 3: To: <sip:0451234567@voip54.nifty.com> (37)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: 4b4d1fd6034eff3d492a5b3f31378cdc4@nifty.com (51)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 14:30:04] DEBUG[30109] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 3 6 】

【表 1 0】

5.(2)②一般固定_未登録No_Asterisk07

```

| [Mar 26 14:30:04] DEBUG[30109] chan_sip.c: ### Header 7: Date: Thu
| 26 Mar 2009 05:30:26 GMT (35)
| [Mar 26 14:30:04] DEBUG[30109] chan_sip.c: ### Header 8: i: 0 (4)
| [Mar 26 14:30:04] DEBUG[30109] chan_sip.c: ### Header 9: (0)
⑧ [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 0: SIP/2.0 410 Gone (16)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK7cf6a7fd (81)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 2: f: "204" <sip.05035991183@nifty.com>;tag=as38591888 (52)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 3: t: <sip.0451234567@voip54.nifty.com>;tag=ba31dc80 (49)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 4: i: 4b4d1fd6034eff3d492a5bf31378cdc4@nifty.com (45)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 6: i: 0 (4)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 7: (0)
⑨ [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 0: ACK sip:0451234567@192.168.0.6 SIP/2.0 (38)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-0f36260560652539-1---d8754z--rport (91)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 2: To: "0451234567" <sip:0451234567@192.168.0.6>;tag=as286876e6 (59)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 3: From: "204" <sip:204@192.168.0.6>;tag=ab4f300c (45)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 4: Call-ID: NjEwNjk3YjJjNmZmYjg4ZGI4MzYwNDUyNWQwNTM5MmM. (53)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 5: CSeq: 2 ACK (11)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 6: Content-Length: 0 (17)
| [Mar 26 14:30:05] DEBUG[30109] chan_sip.c: ### Header 7: (0)

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【 0 0 3 7】

図 9 は、携帯電話端末の既存電話番号のシーケンス図である、図示する P C o n e 1 0 a、P C t w o 1 0 b、および S I P サーバ 3 0 との間で相互に伝送される送受信信号のシーケンス・ログを表 1 1 並びに表 1 2 に示す。

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【 0 0 3 8 】

【 表 1 1 】

5.(3)① 携帯_既存No_AsteriskD7

※この列は見易くする為の記述です
実際の列上では出力されません

(3)① 携帯_既存No_AsteriskD7

(接続後、発信側よりHangUp)

```

① [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 0: INVITE sip:09042455775@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-d76bef557e08aa68-1---d8754z-rport (91)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 4: To: "09042455775" <sip:09042455775@192.168.0.6> (46)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=2f31a832 (45)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 6: Call-ID: MjVmMzljZTk5S0tU1MTdJMWI5YjVlNTBIMTUzNWZIMGQ. (53)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 7: CSeq: 1 INVITE (14)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGI SUBSCRI INFO (81)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 10: User-Agent: X-Lite release 1100l stamp 47546 (44)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 11: Content-Length: 419 (19)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 12: (0)
② [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 0: ACK sip:09042455775@192.168.0.6 SIP/2.0 (39)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-d76bef557e08aa68-1---d8754z-rport (91)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 2: To: "09042455775" <sip:09042455775@192.168.0.6>;tag=as28f2127f (61)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 3: From: "204" <sip:204@192.168.0.6>;tag=2f31a832 (45)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: MjVmMzljZTk5S0tU1MTdJMWI5YjVlNTBIMTUzNWZIMGQ. (53)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 1 ACK (11)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 6: Content-Length: 0 (17)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 7: (0)
③ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 0: INVITE sip:09042455775@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-ec2e0e4fa625f977-1---d8754z-rport (91)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 4: To: "09042455775" <sip:09042455775@192.168.0.6> (46)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=2f31a832 (45)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 6: Call-ID: MjVmMzljZTk5S0tU1MTdJMWI5YjVlNTBIMTUzNWZIMGQ. (53)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 7: CSeq: 2 INVITE (14)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGI SUBSCRI INFO (81)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 10: Proxy-Authorization: Digest username="204" realm="as nonce="31ur="sip:0f response= algorithm=MD5 (168)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 11: User-Agent: X-Lite release 1100l stamp 47546 (44)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 12: Content-Length: 419 (19)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 13: (0)
④ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 0: INVITE sip:09042455775@voip54.nifty.com SIP/2.0 (47)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK086a9a6d (59)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (54)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 3: To: <sip:09042455775@voip54.nifty.com> (38)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 5: Call-ID: 7b061b4f6106bcd27785983172750097@nifty.com (51)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 6: CSeq: 102 INVITE (16)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 7: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 8: Max-Forwards: 70 (16)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 9: Date: Thu
26 Mar 2009 05:56:57 GMT (35)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 10: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRI NOTIFY (66)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 11: Supported: replaces (19)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 12: Content-Type: application/sdp (29)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 13: Content-Length: 235 (19)
↓ [Mar 26 14:56:57] DEBUG[30469] chan_sip.c:### Header 14: (0)
⑤ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK086a9a6d (81)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (54)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 3: To: <sip:09042455775@voip54.nifty.com> (38)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: 7b061b4f6106bcd27785983172750097@nifty.com (51)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 7: Date: Thu
26 Mar 2009 05:57:20 GMT (35)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 8: l: 0 (4)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 9: (0)
⑥ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK086a9a6d (81)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (54)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 3: To: <sip:09042455775@voip54.nifty.com> (38)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: 7b061b4f6106bcd27785983172750097@nifty.com (51)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 7: Date: Thu
26 Mar 2009 05:56:57 GMT (35)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRI NOTIFY (66)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 9: Supported: replaces (19)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 10: l: 0 (4)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 11: Proxy-Authenticate: Digest realm="ntt.com" domain=" nonce="1 opaque=" stale=FALSE algorithm=MD5 (131)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 12: (0)
⑦ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK3e5632a0 (81)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (54)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 3: To: <sip:09042455775@voip54.nifty.com> (38)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 4: Call-ID: 7b061b4f6106bcd27785983172750097@nifty.com (51)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 3 9 】

【表 1 2】

5.(3)①.携帯_既存No_AsteriskD?

```

| [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 7: Date: Thu
| 26 Mar 2009 05:57:20 GMT (35)
| [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 8: l: 0 (4)
| [Mar 26 14:56:57] DEBUG[30109] chan_sip.c:### Header 9: (0)
⑧ [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 183 Session Progress (28)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK3e5632a0 (81)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (52)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 3: t: <sip:09042455775@voip54.nifty.com>;tag=7be710e0 (50)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 4: i: 7b061b4f6106bcd27785983172750097@nifty.com (45)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 5: Cseq: 103 INVITE (16)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 6: c: application/sdp (18)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 7: l: 119 (6)
| [Mar 26 14:56:58] DEBUG[30109] chan_sip.c:### Header 8: (0)
⑨ [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 180 Ringing (19)
| [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK3e5632a0 (81)
| [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (52)
| [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 3: t: <sip:09042455775@voip54.nifty.com>;tag=7be710e0 (50)
| [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 4: i: 7b061b4f6106bcd27785983172750097@nifty.com (45)
| [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 5: Cseq: 103 INVITE (16)
| [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 6: l: 0 (4)
| [Mar 26 14:57:02] DEBUG[30109] chan_sip.c:### Header 7: (0)
⑩ [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 200 OK (14)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK3e5632a0 (81)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (52)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 3: t: <sip:09042455775@voip54.nifty.com>;tag=7be710e0 (50)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 4: i: 7b061b4f6106bcd27785983172750097@nifty.com (45)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 5: Cseq: 103 INVITE (16)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 6: m: <sip:09042455775@10.124.237.46:5060;user=phone> (50)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 7: c: application/sdp (18)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 8: l: 119 (6)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 9: Record-Route:<sip:09042455775@voip54.nifty.com:5060;maddr=210.227.109.117> (74)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 10: Allow: INVITE
| ACK BYE CANCEL (28)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 11: x: 180;refresher=uas (20)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 12: (0)
⑪ [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 0: ACK sip:09042455775@192.168.0.6 SIP/2.0 (39)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-2f13fc3441226544-1---d8754z--rport (91)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 4: To: "09042455775" <sip:09042455775@192.168.0.6>;tag=as2e8edec0 (61)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=2f31a832 (45)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 6: Call-ID: MjVmMzljZTk5OTU1MTdjMWI5YjVlNTBhMTUzNWZlMjIz (53)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 7: CSeq: 2 ACK (11)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 8: Proxy-Authorization: Digest username="204"
| realm="as nonce="31uri="sip:05 response= algorithm=MD5 (168)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 9: User-Agent: X-Lite release 1100i stamp 47546 (44)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 10: Content-Length: 0 (17)
| [Mar 26 14:57:10] DEBUG[30109] chan_sip.c:### Header 11: (0)
⑫ [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 0: BYE sip:09042455775@192.168.0.6 SIP/2.0 (39)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-fd12613eac3e4b10-1---d8754z--rport (91)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 4: To: "09042455775" <sip:09042455775@192.168.0.6>;tag=as2e8edec0 (61)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=2f31a832 (45)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 6: Call-ID: MjVmMzljZTk5OTU1MTdjMWI5YjVlNTBhMTUzNWZlMjIz (53)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 7: CSeq: 3 BYE (11)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 8: Proxy-Authorization: Digest username="204"
| realm="as nonce="31uri="sip:05 response= algorithm=MD5 (168)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 9: User-Agent: X-Lite release 1100i stamp 47546 (44)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 10: Reason: SIP:description="User Hung Up" (38)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 11: Content-Length: 0 (17)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 12: (0)
⑬ [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 0: SIP/2.0 200 OK (14)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK4038f5b3 (81)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as5b417f12 (52)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 3: t: <sip:09042455775@voip54.nifty.com>;tag=7be710e0 (50)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 4: i: 7b061b4f6106bcd27785983172750097@nifty.com (45)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 5: Cseq: 104 BYE (14)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 6: l: 0 (4)
| [Mar 26 14:57:15] DEBUG[30109] chan_sip.c:### Header 7: (0)

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【 0 0 4 0 】

図 10 は、携帯電話端末の未登録電話番号のシーケンス図である、図示する PCone 10 a、PCtwo 10 b、および SIP サーバ 30 との間で相互に伝送される送受信信号のシーケンス・ログを表 1 3 並びに表 1 4 に示す。

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【 0 0 4 1 】

【 表 1 3 】

5.(3) ② 携帯 未登録No. AsteriskD7

※この列は見易くする為の記述です
実際のログ上では出力されません

(3) ② 携帯 未登録No. AsteriskD7

```

① [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 0: INVITE sip:0909999999@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-dc367041176d2348-1---d8754z--rport (81)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 4: To: "0909999999" <sip:0909999999@192.168.0.6> (46)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=31766b1f (45)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 6: Call-ID: ZTY50GE4NGE4MTlyZTRkNzdIM2M3Zjk4NTQ3M2FmZDI. (53)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 7: CSeq: 1 INVITE (14)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 10: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 11: Content-Length: 419 (19)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 12: (0)
② [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 0: ACK sip:0909999999@192.168.0.6 SIP/2.0 (39)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-dc367041176d2348-1---d8754z--rport (81)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 2: To: "0909999999" <sip:0909999999@192.168.0.6>;tag=as6f17c4cd (61)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 3: From: "204" <sip:204@192.168.0.6>;tag=31766b1f (45)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 4: Call-ID: ZTY50GE4NGE4MTlyZTRkNzdIM2M3Zjk4NTQ3M2FmZDI. (53)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 5: CSeq: 1 ACK (11)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 6: Content-Length: 0 (17)
↓ [Mar 26 14:59:36] DEBUG[30109] chan.sip.c: ### Header 7: (0)
③ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 0: INVITE sip:0909999999@192.168.0.6 SIP/2.0 (42)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-b6550e1d9d385650-1---d8754z--rport (81)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 4: To: "0909999999" <sip:0909999999@192.168.0.6> (46)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=31766b1f (45)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 6: Call-ID: ZTY50GE4NGE4MTlyZTRkNzdIM2M3Zjk4NTQ3M2FmZDI. (53)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 7: CSeq: 2 INVITE (14)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 10: Proxy-Authorization: Digest username="204"
realm="as2cc5a5eda" nonce="3furi=sip:0fresponse=algorithm=MD5 (168)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 11: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 12: Content-Length: 419 (19)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 13: (0)
④ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 0: INVITE sip:0909999999@voip54.nifty.com SIP/2.0 (47)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK0c72fd31 (59)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as2cc5a5eda (54)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 3: To: <sip:0909999999@voip54.nifty.com> (38)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 5: Call-ID: 6a0554d86d331f6d17c604f1640d91d3@nifty.com (51)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 6: CSeq: 102 INVITE (16)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 7: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 8: Max-Forwards: 70 (16)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 9: Date: Thu
26 Mar 2009 05:59:37 GMT (35)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 10: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 11: Supported: replaces (19)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 12: Content-Type: application/sdp (29)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 13: Content-Length: 235 (19)
↓ [Mar 26 14:59:37] DEBUG[30478] chan.sip.c: ### Header 14: (0)
⑤ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0c72fd31 (81)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as2cc5a5eda (54)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 3: To: <sip:0909999999@voip54.nifty.com> (38)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 4: Call-ID: 6a0554d86d331f6d17c604f1640d91d3@nifty.com (51)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 7: Date: Thu
26 Mar 2009 05:59:37 GMT (35)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 8: I: 0 (4)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 9: (0)
⑥ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0c72fd31 (81)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as2cc5a5eda (54)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 3: To: <sip:0909999999@voip54.nifty.com> (38)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 4: Call-ID: 6a0554d86d331f6d17c604f1640d91d3@nifty.com (51)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 7: Date: Thu
26 Mar 2009 05:59:37 GMT (35)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 9: Supported: replaces (19)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 10: I: 0 (4)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 11: Proxy-Authenticate: Digest realm="ntt.com"
domain=" " nonce="1 opaque=" stale=FALSE algorithm=MD5 (131)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 12: (0)
⑦ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK3e822f5 (81)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as2cc5a5eda (54)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 3: To: <sip:0909999999@voip54.nifty.com> (38)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 4: Call-ID: 6a0554d86d331f6d17c604f1640d91d3@nifty.com (51)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 14:59:37] DEBUG[30109] chan.sip.c: ### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 4 2 】

【表 1 4】

5.(3).②.携帯_未登録No_Asterisk09

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l [Mar 26 14:59:37] DEBUG[30109] chan_sip.c: ### Header 7: Date: Thu
l 26 Mar 2009 05:59:59 GMT (35)
l [Mar 26 14:59:37] DEBUG[30109] chan_sip.c: ### Header 8: l: 0 (4)
l [Mar 26 14:59:37] DEBUG[30109] chan_sip.c: ### Header 9: (0)
⑧ [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 0: SIP/2.0 410 Gone (16)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK3e8822f5 (81)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as2cc5aeda (52)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 3: t: <sip:09099999999@voip54.nifty.com>;tag=db709db0 (50)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 4: i: 6a0554d86d331f6d17c604f1640d91d3@nifty.com (45)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 5: Cseq: 103 INVITE (16)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 6: l: 0 (4)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 7: (0)
⑨ [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 0: ACK sip:09099999999@192.168.0.6 SIP/2.0 (39)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-b6550e1d9d385650-1---d8754z--rport (91)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 2: To: "09099999999" <sip:09099999999@192.168.0.6>;tag=as6912df75 (61)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 3: From: "204" <sip:204@192.168.0.6>;tag=31766b1f (45)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 4: Call-ID: ZTY5OGE4NGE4MTlyZTRkNzdlM2M3Zjk4NTQ3M2FmZDl (53)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 5: CSeq: 2 ACK (11)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 6: Content-Length: 0 (17)
l [Mar 26 14:59:38] DEBUG[30109] chan_sip.c: ### Header 7: (0)

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【 0 0 4 3】

図 1 1 は、ナビダイヤルの既存電話番号のシーケンス図である、図示する P C o n e 1 0 a、P C t w o 1 0 b、および S I P サーバ 3 0 との間で相互に伝送される送受信信号のシーケンス・ログを表 1 5 並びに表 1 6 に示す。

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【 0 0 4 4 】

【 表 1 5 】

5.(4).①.パブリック_既存No_AsteriskDg

※この列は見易くする為の転記です
実際のDgでは出力されません

(4) ①.パブリック_既存No_AsteriskDg

(エーにより通信不可)

```

① [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 0: INVITE sip:0570081999@192.168.0.6 SIP/2.0 (41)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-c239bd451f318a0e1---d8754z--rport (91)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 4: To: "0570081999" <sip:0570081999@192.168.0.6> (44)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=892c5f77 (45)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 6: Call-ID: ZGY2NjJmZDQ0MjdlN2YyZmMwMTU1YTlkMDdiMjJmMjk. (53)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 7: CSeq: 1 INVITE (14)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 10: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 11: Content-Length: 419 (19)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 12: (0)
② [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 0: ACK sip:0570081999@192.168.0.6 SIP/2.0 (38)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-c239bd451f318a0e1---d8754z--rport (91)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 2: To: "0570081999" <sip:0570081999@192.168.0.6>;tag=as5139ce41 (59)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 3: From: "204" <sip:204@192.168.0.6>;tag=892c5f77 (45)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 4: Call-ID: ZGY2NjJmZDQ0MjdlN2YyZmMwMTU1YTlkMDdiMjJmMjk. (53)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 5: CSeq: 1 ACK (11)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 6: Content-Length: 0 (17)
↓ [Mar 26 15:37:16] DEBUG[30772] chan_sip.c: ### Header 7: (0)
③ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 0: INVITE sip:0570081999@192.168.0.6 SIP/2.0 (41)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-031f6304ba2b896a1---d8754z--rport (91)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 2: Max-Forwards: 70 (16)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 4: To: "0570081999" <sip:0570081999@192.168.0.6> (44)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 5: From: "204" <sip:204@192.168.0.6>;tag=892c5f77 (45)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 6: Call-ID: ZGY2NjJmZDQ0MjdlN2YyZmMwMTU1YTlkMDdiMjJmMjk. (53)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 7: CSeq: 2 INVITE (14)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 9: Content-Type: application/sdp (29)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 10: Proxy-Authorization: Digest username="204" realm="as nonce="4c1uri="sip:0 response="algorithm=MD5 (167)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 11: User-Agent: X-Lite release 11001 stamp 47546 (44)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 12: Content-Length: 419 (19)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 13: (0)
④ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 0: INVITE sip:0570081999@voip54.nifty.com SIP/2.0 (46)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK76abe91f (59)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as0e29ba6e (54)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 3: To: <sip:0570081999@voip54.nifty.com> (37)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 5: Call-ID: 654d6b482614e2f82f51962a5118cb1a@nifty.com (51)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 6: CSeq: 102 INVITE (16)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 7: User-Agent: Asterisk PBX (24)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 8: Max-Forwards: 70 (16)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 9: Date: Thu
↓ 26 Mar 2009 06:37:17 GMT (35)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 10: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 11: Supported: replaces (19)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 12: Content-Type: application/sdp (29)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 13: Content-Length: 235 (19)
↓ [Mar 26 15:37:17] DEBUG[30801] chan_sip.c: ### Header 14: (0)
⑤ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK76abe91f (81)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as0e29ba6e (54)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 3: To: <sip:0570081999@voip54.nifty.com> (37)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 4: Call-ID: 654d6b482614e2f82f51962a5118cb1a@nifty.com (51)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 7: Date: Thu
↓ 26 Mar 2009 06:37:39 GMT (35)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 8: I: 0 (4)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 9: (0)
⑥ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK76abe91f (81)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as0e29ba6e (54)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 3: To: <sip:0570081999@voip54.nifty.com> (37)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 4: Call-ID: 654d6b482614e2f82f51962a5118cb1a@nifty.com (51)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 5: CSeq: 102 INVITE (16)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 7: Date: Thu
↓ 26 Mar 2009 06:37:17 GMT (35)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 9: Supported: replaces (19)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 10: I: 0 (4)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 11: Proxy-Authenticate: Digest realm="ntt.com" domain=" nonce="1 opaque=" stale=FALSE algorithm=MD5 (131)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 12: (0)
⑦ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 0: SIP/2.0 100 Trying (18)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK2e96d24b (81)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as0e29ba6e (54)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 3: To: <sip:0570081999@voip54.nifty.com> (37)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 4: Call-ID: 654d6b482614e2f82f51962a5118cb1a@nifty.com (51)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c: ### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 4 5 】

【表 16】

5.(4).①.ナビダイヤル_既存No_AsteriskP*

```

↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 7: Date: Thu
↓ 26 Mar 2009 06:37:39 GMT (35)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 8: l: 0 (4)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 9: (0)
⑧ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 0: SIP/2.0 484 Address Incomplete (30)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK2e96d24b (81)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 2: f: "204" <sip:05035991183@nifty.com>;tag=as0e29ba6e (51)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 3: t: <sip:0570081999@voip54.nifty.com>;tag=9148301993 (51)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 4: i: 654d6b482614e2f82f51962a5118cb1a@nifty.com (45)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 5: CSeq: 103 INVITE (16)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 7: Date: Thu
↓ 26 Mar 2009 06:37:17 GMT (35)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 8: Allow: INVITE
↓ ACK CANCEL OPTIONS BYE REFER SUBSCRI NOTIFY (66)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 9: Supported: replaces (19)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 10: l: 0 (4)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 11: (0)
⑨ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 0: ACK sip:0570081999@192.168.0.6 SIP/2.0 (38)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-031f6304ba2b896a-1---d8754z--rport (91)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 2: To: "0570081999" <sip:0570081999@192.168.0.6>;tag=as7304610a (59)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 3: From: "204" <sip:204@192.168.0.6>;tag=892c5f77 (45)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 4: Call-ID: ZGY2NjJmZDQ0MjYyZmMwMTU1YTlkMDdMjMjMjk. (53)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 5: CSeq: 2 ACK (11)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 6: Content-Length: 0 (17)
↓ [Mar 26 15:37:17] DEBUG[30772] chan_sip.c:### Header 7: (0)

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【 0 0 4 6 】

図 12 は、ナビダイヤルの未登録電話番号のシーケンス図である、図示する PCone 10a、PCtwo10b、および SIPサーバ30 との間で相互に伝送される送受信信号のシーケンス・ログを表 17 並びに表 18 に示す。

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【 0 0 4 7 】

【 表 1 7 】

5.(4).②.パブリック未登録No.Asterisk

※この列は見易くする為の記述です
実際のログ上では出力されません

(4)②パブリック未登録No.Asterisk

```

① [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 0: INVITE sip:0570081123@192.168.0.6 SIP/2.0 (41)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-cb35332fdc4d4c77-1---d8754z-rport (91)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 4: To: "0570081123" <sip:0570081123@192.168.0.6> (44)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=0b01460c (45)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 6: Call-ID: M2JhZTAwYmRlMGM5MjE4NGYONjc0MTdhZTA3ZmZmZDI (53)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 7: CSeq: 1 INVITE (14)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 8: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 9: Content-Type: application/sdp (29)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 10: User-Agent: X-Lite release 1100l stamp 47546 (44)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 11: Content-Length: 419 (19)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 12: (0)
② [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 0: ACK sip:0570081123@192.168.0.6 SIP/2.0 (38)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-cb35332fdc4d4c77-1---d8754z-rport (91)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 2: To: "0570081123" <sip:0570081123@192.168.0.6>;tag=as6729b7ee (59)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 3: From: "204" <sip:204@192.168.0.6>;tag=0b01460c (45)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 4: Call-ID: M2JhZTAwYmRlMGM5MjE4NGYONjc0MTdhZTA3ZmZmZDI (53)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 5: CSeq: 1 ACK (11)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 6: Content-Length: 0 (17)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 7: (0)
③ [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 0: INVITE sip:0570081123@192.168.0.6 SIP/2.0 (41)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 192.168.0.3:32938;branch=z9hG4bK-d8754z-6268d76b38563b0c-1---d8754z-rport (91)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 2: Max-Forwards: 70 (16)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 3: Contact: <sip:204@192.168.0.3:32938> (36)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 4: To: "0570081123" <sip:0570081123@192.168.0.6> (44)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 5: From: "204" <sip:204@192.168.0.6>;tag=0b01460c (45)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 6: Call-ID: M2JhZTAwYmRlMGM5MjE4NGYONjc0MTdhZTA3ZmZmZDI (53)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 7: CSeq: 2 INVITE (14)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 8: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER NOTIFY MESSAGE SUBSCRIBE INFO (81)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 9: Content-Type: application/sdp (29)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 10: Proxy-Authorization: Digest username="204"
| realm="as nonce="2;uri="sip:0 response= algorithm=MD5 (167)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 11: User-Agent: X-Lite release 1100l stamp 47546 (44)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 12: Content-Length: 419 (19)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 13: (0)
④ [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 0: INVITE sip:0570081123@voip54.nifty.com SIP/2.0 (46)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 1: Via: SIP/2.0/UDP 133.160.135.19:5060;branch=z9hG4bK0edbb9ae (59)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as6d0cf70c (54)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 3: To: <sip:0570081123@voip54.nifty.com> (37)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 4: Contact: <sip:05035991183@133.160.135.19> (41)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 5: Call-ID: 0db37ccd0ac6a5946c23f0c85621c5fa@nifty.com (51)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 6: CSeq: 102 INVITE (16)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 7: User-Agent: Asterisk PBX (24)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 8: Max-Forwards: 70 (16)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 9: Date: Thu
| 26 Mar 2009 06:39:03 GMT (35)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 10: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 11: Supported: replaces (19)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 12: Content-Type: application/sdp (29)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 13: Content-Length: 235 (19)
| [Mar 26 15:39:03] DEBUG[30810] chan_sip.c:### Header 14: (0)
⑤ [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 0: SIP/2.0 100 Trying (18)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0edbb9ae (81)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as6d0cf70c (54)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 3: To: <sip:0570081123@voip54.nifty.com> (37)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 4: Call-ID: 0db37ccd0ac6a5946c23f0c85621c5fa@nifty.com (51)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 5: CSeq: 102 INVITE (16)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 7: Date: Thu
| 26 Mar 2009 06:39:26 GMT (35)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 8: I: 0 (4)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 9: (0)
⑥ [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 0: SIP/2.0 407 Proxy Authentication Required (41)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK0edbb9ae (81)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as6d0cf70c (54)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 3: To: <sip:0570081123@voip54.nifty.com> (37)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 4: Call-ID: 0db37ccd0ac6a5946c23f0c85621c5fa@nifty.com (51)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 5: CSeq: 102 INVITE (16)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 7: Date: Thu
| 26 Mar 2009 06:39:03 GMT (35)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 8: Allow: INVITE
| ACK CANCEL OPTIONS BYE REFER SUBSCRIBE NOTIFY (66)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 9: Supported: replaces (19)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 10: I: 0 (4)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 11: Proxy-Authenticate: Digest realm="ntt.com"
| domain=" nonce="1 opaque=" stale=FALSE algorithm=MD5 (131)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 12: (0)
⑦ [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 0: SIP/2.0 100 Trying (18)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 1: v: SIP/2.0/UDP 133.160.135.19:5060;received=115.177.35.254;branch=z9hG4bK79d10de9 (81)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 2: From: "204" <sip:05035991183@nifty.com>;tag=as6d0cf70c (54)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 3: To: <sip:0570081123@voip54.nifty.com> (37)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 4: Call-ID: 0db37ccd0ac6a5946c23f0c85621c5fa@nifty.com (51)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 5: CSeq: 103 INVITE (16)
| [Mar 26 15:39:03] DEBUG[30772] chan_sip.c:### Header 6: User-Agent: Asterisk PBX (24)

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【 0 0 4 8 】

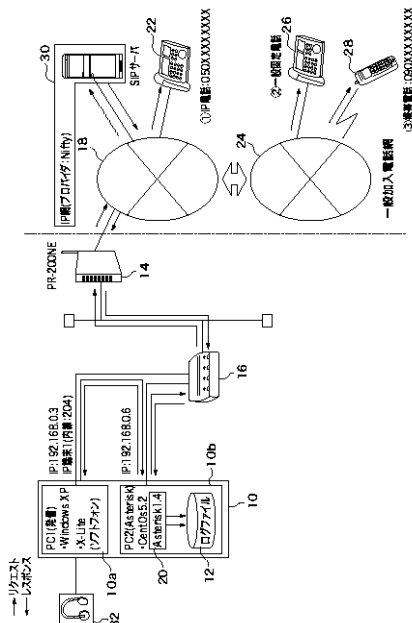
いは未使用化される電話番号の更新情報を得ることができる。特に、電気通信事業者から過去に払い出しがなかった新設電話番号の更新データは、少なくとも、情報漏れをなくすために有用な情報となるし、過去に有効であった電話番号が直近の調査データから無効に移行した場合にも与信審査において有効な情報となることは言うまでもない。

【符号の説明】

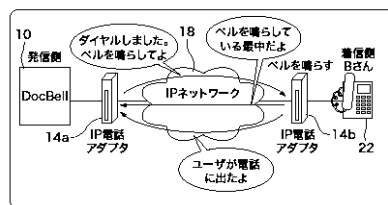
【0050】

- 10 電話番号情報の自動作成装置
- 12 記憶装置
- 14 IP電話アダプタ
- 16 オートダイヤル発信手段
- 18 IP網
- 20 通信ログ記憶手段
- 22 IP電話
- 24 一般加入電話網(公衆網)
- 26 一般固定電話
- 28 携帯電話端末
- 30 SIPサーバ
- 32 ヘッドホンマイク

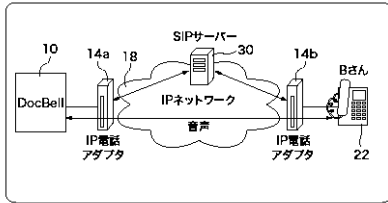
【図1】



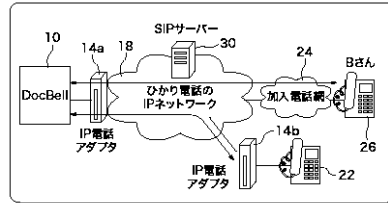
【図2】



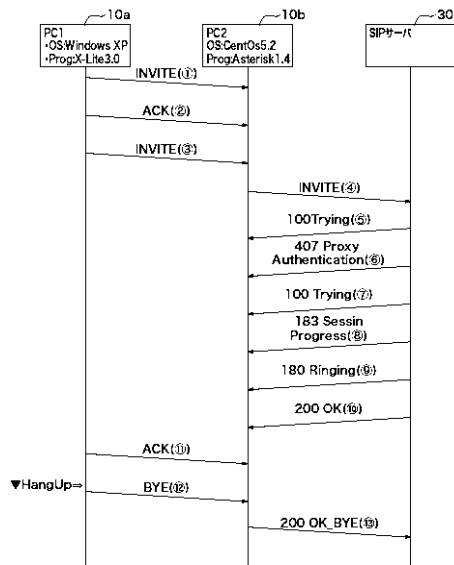
【 図 3 】



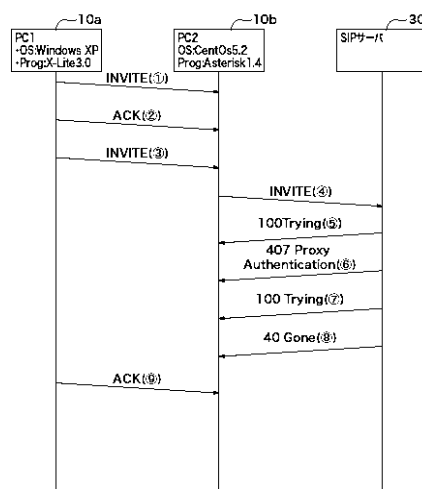
【 図 4 】



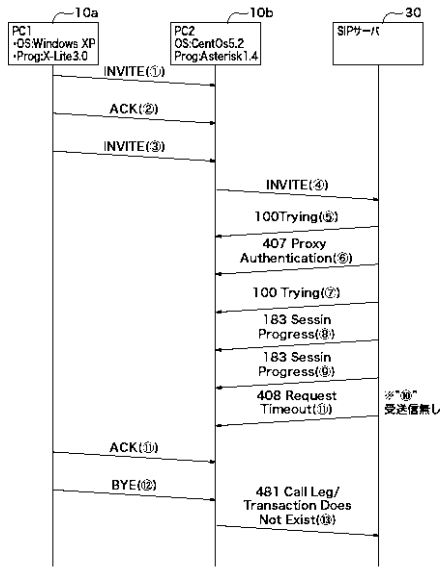
【 図 5 】



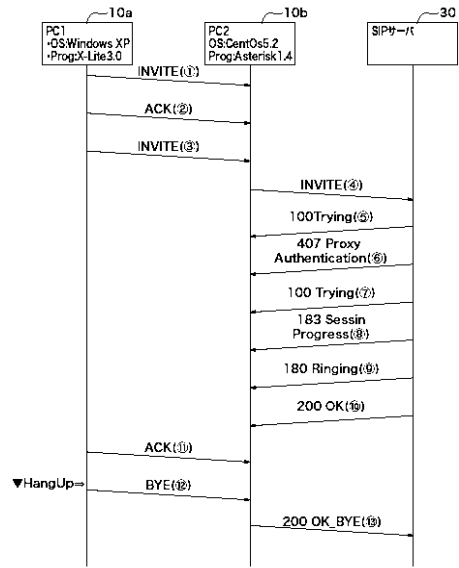
【 図 6 】



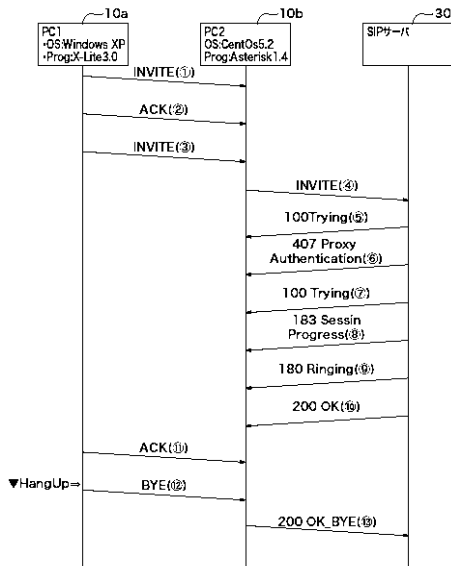
【 図 7 】



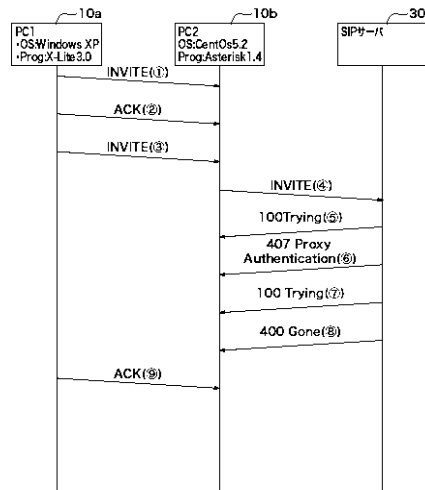
【 図 8 】



【 図 9 】

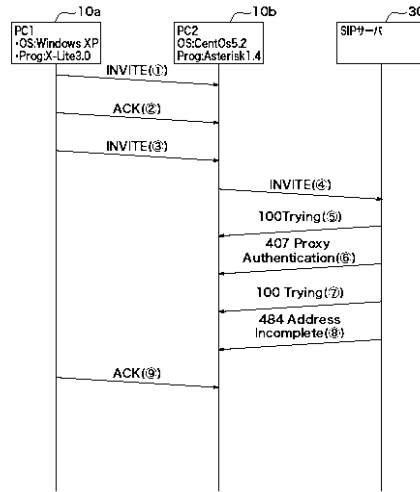
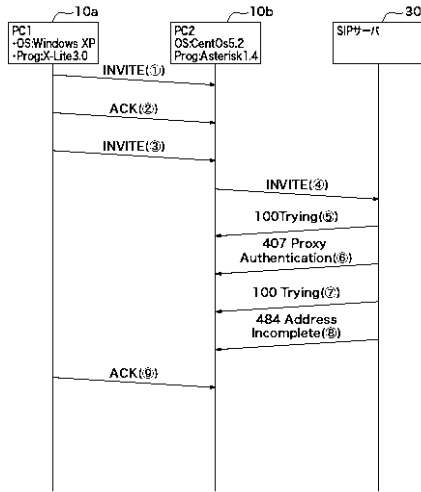


【 図 10 】



【 図 1 1 】

【 図 1 2 】



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DGジャパン, 2007年11月 1日, 第12巻, 第70-79頁

(58)調査した分野(Int.Cl., DB名)

G06F19/00-19/28
G06Q10/00-10/10
30/00-30/08
50/00-50/20
50/26-99/00
H04M1/00
1/24-3/00
3/16-3/20
3/38-3/58
7/00-7/16
11/00-11/10
99/00