

AO EXCELENTÍSSIMO SENHOR PREGOEIRO DA COMPANHIA DE GÁS DO ESPÍRITO SANTO — ESGÁS - SR. GERALDO DE MIRANDA NUNCES FILHO.

Pregão Eletrônico nº PESG020/2022 Processo de Licitação nº 5000202022

Objeto: Contratação de empresa especializada em fornecimento de solução de telefonia IP, bem como implantação, manutenção e suporte da central de PABX e seus dispositivos terminais na modalidade OPEX

Assunto: Contrarrazões ao recurso apresentado contra à decisão que declarou vencedora do certame a empresa 3CORP TECHNOLOGY INFRAESTRUTURA DE TELECOM LTDA.

A 3CORP TECHNOLOGY INFRAESTRUTURA DE TELECOM LTDA., inscrita sob o CNPJ nº 04.238.297/0001-89, por intermédio de seu representante legal infra-assinado, localizada na Alameda Oceania, nº 56, Polo Empresarial, Tamboré, SP, CEP: 06543-308, com fulcro na Lei nº 13.303/2002, Lei nº 10.520/2020 e Lei Complementar nº 123/200, vem tempestivamente e respeitosamente apresentar suas CONTRARRAZÕES ao RECURSO interposto pela empresa BETTA SOLUÇÕES DE ATENDIMENTO LTDA., em face da decisão que a declarou vencedora, conforme seguem:

1) DA TEMPESTIVIDADE

A presente resposta ao recurso é tempestiva, uma vez que a empresa recorrente apresentou o recurso até o dia 20/09/2022 (terça-feira) e considerando o prazo para apresentação das contrarrazões de até 3 (três) dias úteis a contar do término do prazo do recorrente, o prazo se esgotará no dia 23/09/2022 (sexta-feira), portanto, verifica-se tempestividade, conforme subitem 10.1do Edital.

ompanhia de Gás do Espírito Santo

16:54 hz



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2) PRELIMINARMENTE

Ao elaborar a proposta, a **3CORP TECHNOLOGY INFRAESTRUTURA DE TELECOM LTDA.**, fez no mais estrito cumprimento aos princípios gerais do Direito, atendendo aos preceitos que regem as licitações públicas e sociedades de economia mista, no que tange a modalidade de licitação denominada pregão, na forma eletrônica, além de garantir a observância dos princípios da impessoalidade, da moralidade, da igualdade, da economicidade, da vinculação ao instrumento convocatório, da obtenção de competitividade e do julgamento objetivo, previstos no artigo 31 da Lei nº 13.303/2016.

Conforme alegações a seguir, a Recorrida **3CORP** demonstrará que a decisão do Sr. Pregoeiro e de sua equipe de apoio foi assertiva, pois fundamentada em princípios basilares da licitude e de acordo com o disposto no Edital referente ao Pregão em comento.

3) DOS FATOS E DOS FUNDAMENTOS JURÍDICOS

Após regular certame licitatório, a empresa **3CORP**, apresentou seu melhor lance no montante de R\$ 206.000,00 (duzentos e seis mil reais), restando classificada em 1º lugar, e a empresa Recorrente em 3º lugar com o melhor lance de R\$ 359.183,00 (trezentos e cinquenta e nove mil cento e oitenta e três reais).

Contudo, irresignada com a derrota, sobretudo porque não apresentou o melhor preço para que fosse possível contratar com a Administração, a Recorrente **BETTA SOLUÇÕES DE ATENDIMENTO LTDA.,** interpôs o presente recurso, meramente protelatório, já que suas razões são nitidamente improcedentes, esvaziadas de qualquer argumento, mesmo conhecendo que houve diligência durante a análise da proposta da Recorrida.

Logo, por qualquer ângulo que se observe, outra conclusão não se chegará, a não ser que o recurso da Recorrente é totalmente protelatório, sem fundamento técnico e que visa apenas retardar o processo, e como via de consequência, a decisão deve ser pela improcedência.





Desta forma, podemos notar que o Recurso Administrativo, data máxima vênia, foi edificado sobre base movediça.

Com fundamento nas contrarrazões anexas, requer ainda seja desprovido o recurso interposto pela Recorrente, eis que manifestamente improcedente. Caso não seja esse o entendimento do Sr. Pregoeiro e sua Comissão de Licitação, requer que seja encaminhada à autoridade competente superior para a decisão final.

4) DAS CONTRARRAZÕES RECURSAIS

Inicialmente a Recorrente, tomada pelo seu inconformismo, já que após a fase de lances não conseguiu apresentar o melhor valor, busca por meio de rasa e infundada alegação atrasar e tumultuar o processo, uma vez que coloca em xeque as práticas realizadas pelo Sr. Pregoeiro e sua equipe técnica, alegando:

4.1) Do suposto não atendimento ao subitem 6.3.1.17

Conforme determina expressamente no Memorial Descritivo no subitem:

"6.3. Aparelho Telefônico IP – Avançado

6.3.1. Os aparelhos telefônicos IP deverão ser fornecidos pela CONTRATADA, homologados pela ANATEL e possuir as características mínimas abaixo:

(...)

6.3.1.17. Implementar os CODECS de voz conforme padrão G.711 (a-law e u-law), G722, G.729 (A ou AB), e Opus;" Destaques nossos

Aduz a Recorrente BETTA SOLUÇÕES DE ATENDIMENTO LTDA., que na documentação do produto indicado pela Recorrida não há indicação dos padrões dos CODECS de voz, não atendendo assim o requisito do subitem 6.3.17 do Memorial Descritivo, o que restará provado que a suposição não procede.



Av. Dr. Tácito Vianna Rodrigues,

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Brasília Empresarial Varig



A Recorrida informa que é possível utilizar os seguintes codecs no aparelho 8088 Smart Deskphone:

- Codec G.711 que é o mais representativo na tecnologia VoIP, tanto no métodos de compressão de chamados μLaw (utilizado principalmente nos Estados Unidos) e aLaw (utilizado nos demais países).
- Codec G.729 que é muito popular é o G.729, pois ele possui baixa largura de banda (apenas 8kbps) e alta carga de processamento. A taxa de compressão baixa deste codec é uma grande vantagem em relação ao codec G.711, isso é obtido através de algoritmo complexo exigindo um grande poder de processamento.
- Codec G.722 que utiliza de uma técnica que aumenta a faixa de amostragem para 50Hz até 7kHz, provendo melhor qualidade do áudio. Este codec é ofertado pelos principais fabricantes de equipamentos para telefonia VoIP, sendo considerado um codec da família HD Voice (voz em alta definição).

"tg0065en-De forma complementar, documento anexamos ed02_8082_my_ic_phone_and_8088_smart_deskphone_troubleshooting_guide.pdf ", onde resta evidenciado a utilização dos codecs, utilizando como exemplo os comandos para verificação de parâmetros globais de RTP que serão usados, cujas informações estão na página 22 (vinte e dois) do documento, vejamos:

```
3.3.9.9 Global rtp configuration (media rtp)
        This command is useful to check the global rtp parameters which will be used (codec
        payload duration, dtmf telephonic events payload type, ...).
$ media rtp
#media#
tos=46
RFC2198 enable=0
dtmf telephony event payload type=97 dtmf redundant header payload type=96
AMR payload type=117
G722 WB BitRate=2
AMR WB BitRate=2
vocoders[0].payload_ms=20
vocoders[0].silence_compression_onoff=0
codec=G.711 PCMA
vocoders[1].payload_ms=20
vocoders[1].silence_compression_onoff=0
codec=G.729 AB
vocoders[2].payload_ms=20
vocoders[2].silence_compression_onoff=0
codec=G.722 ADPCM 64k
vocoders[3].payload_ms=20
vocoders[3].silence_compression_onoff=0
codec=G.722.2 AMR WB
vocoders[4].payload ms=20
vocoders[4].silence_compression_onoff=0
media OK
```



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Ainda sobre os codecs de áudio wideband, são aceitos em ambos os protocolos, OPUS e G722, tendo como objetivo o suporte da família HD Voice (voz em alta definição).

Desta maneira, reiteramos que o aparelho 8088 Smart Deskphone atende aos principais codecs, com destaque para o wideband G.722 com Áudio HD Voice, e consequentemente atendemos ao item 6.3.1.17.

4.2) Do suposto não atendimento ao subitem 6.3.1.18

Conforme determina expressamente no Memorial Descritivo no subitem:

"6.3. Aparelho Telefônico IP – Avançado

6.3.1. Os aparelhos telefônicos IP deverão ser fornecidos pela CONTRATADA, homologados pela ANATEL e possuir as características mínimas abaixo:

(...)

6.3.1.18. Possuir câmera integrada com resolução de, no mínimo, 780p;"

Novamente, alegam o não atendimento ao subitem 6.1.1.18 do Memorial Descritivo, no qual exige a câmera integrada com resolução de 1080p.

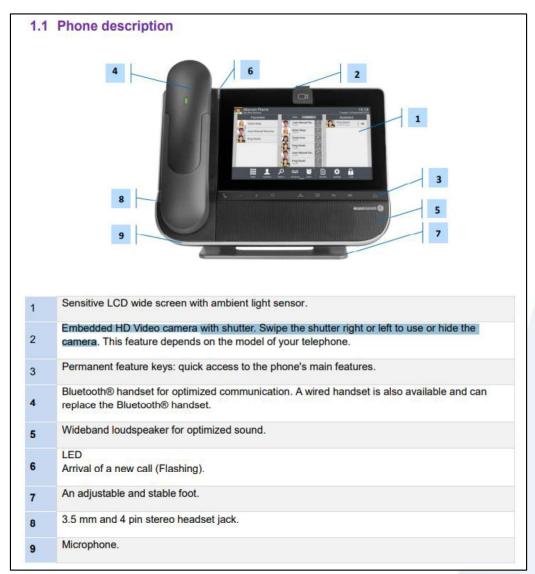
O aparelho 8088 Smart Deskphone possui uma câmera embutida de alta definição, com codificação de vídeo progressivo, onde cada quadro é uma representação codificada de um quadro de vídeo.

De forma complementar, anexamos o documento "oxe-um-8088-smart-deskphone-r200-8al90333enaa-2-en.pdf", com descritivo do aparelho telefônico onde na página 06 (seis) resta ilustrado a câmera de vídeo HD embutida com obturador.



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Adicionalmente o aparelho possui uma vasta gama de conectores, que podem ser utilizadas para adicionarmos dispositivos externos, o que pode ser visto na página 07 (sete) e 14 (quatorze), onde constam informações dos conectores USB e HDMI consequentemente.



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1.2 Description of the connectors

Various connections to allow phone extensions.



- Add-on module connector (SATA type). 1
- Two Universal Serial Bus (USB) ports (1.1/2.0) to connect an external camera, audio equipment, 2 a low smartphone charger or USB stick.
- HDMI® 1.4 output for screen replication and for dedicated HD video display. 3
- 10/100/1000 Mbps Ethernet connectors to a PC (RJ45). 4
- 10/100/1000 Mbps Ethernet connectors to the enterprise network (LAN RJ45).
- DC power jack for an external power adaptor.
- Wired handset connector (RJ9). 7

1.8 HDMI connector

Your set is equipped with an HDMI 1.4 output for a better video experience.

The 8088 Smart DeskPhone can be connected to a large screen or video projector. Moreover, an external camera can be connected to the phone to broadcast the entire room. Your deskphone can easily find its place in a meeting room.

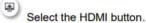
There are two ways to use the HDMI connector:

- Broadcast the video conversation (HD capability).
- Broadcast the entire display of the phone.

Your set has to be connected to the appropriate equipment.

Broadcast the video conversation (HD capability)

- Use one of the following:
 - o During the video conversation, swipe up on the video displayed on the phone to broadcast it to the equipment connected via HDMI.
 - To stop the broadcast, swipe down on the video displayed on the phone.









Com base nas informações citadas, sobre a tecnologia embarcada no equipamento, informamos que o aparelho atende ao item 6.1.1.18.

4.3) Do suposto não atendimento ao subitem 7.4.2.2

Conforme determina expressamente no Memorial Descritivo no subitem:

"7.4. Segurança

(...)

7.4.2.2. Deverá utilizar o protocolo SRTP para criptografia da mídia nos terminais de comunicação, utilizando o padrão AES com chaves de 256 bits." Destaques nossos

Alega a Recorrente que o modelo ofertado não possui compatibilidade com criptografia de voz, protocolo SRTP, com chaves de 256 bits.

O equipamento OmniPCX Enterprise é de alta escalabilidade e a Alcatel-Lucent, ciente da importância da segurança da informação e visando uma operação correta, atende ao padrão criptográfico aprovado pelo FIPS que pode ser utilizado para proteger os dados eletrônicos.

O Algoritmo criptográfico Advanced Encryption Standard (AES) é atendido integralmente através das chaves de 128 e 256 bits.

Reiteramos através do documento "omnipcx-enterprise-communication-server-datasheet-en.pdf", que a conjunção dos itens de segurança e criptografia evidenciados na página 04 (quatro), garante a segurança das informações do sistema de telefonia, vejamos:





Security

Authentication

- · Local or external RADIUS
- IEEE 802.1X TLS1.2
- Integrated audit tool to assess security management
- LDAPS authentication for OXE SIP Device Management

Traffic filtering

- Communication Server
- Trusted hosts file
- → TCP wrapper function
- ALE DeskPhones
 - ARP spoofing protection
 - PC port switch VLAN filtering

Encryption for management

- SSHv2 for secure sessions (such as Telnet, FTP)
- · TLS1.2 for secure HTTP session
- · LDAPS for directory access

Native encryption

- Client/device confidentiality (signaling protocol and media)
- DTLS 1.2 with AES 256 and SRTP with AES 128
 - 100% software based
 - SHA2 certificate authentication
 - ALE Enterprise and Essential DeskPhones (IP), IP Desktop Softphone
 - GD4/GD3/INTIP3/OMS and PCS
 - DTLS scalability with External Encryption Gateway
 - IP-XBS DECT encryption
 - Rainbow WebRTC Gateway encryption
 - OmniPCX Record encryption
- TLS 1.2 with AES 256 and SRTP with AES 128
 - SIP trunks
- Migration from IP Premium Security Encryption

Adicionalmente anexamos o documento "opentouch-sbc-datasheet-en.pdf", já que o OpenTouch Session Border Controller faz parte da composição da solução e abaixo evidenciamos a negociação das chaves AES 128 e 256 no protocolo de transporte seguro em tempo real (SRTP).





Security

- Miercom certified
- Distributed denial of service (DDOS) prevention: L3/L4 and SIP
- SIP stateful inspection: Prevents DDOS attacks based on fraudulent SIP messages
- SIP topology hiding: SIP headers that disclose internal IP topology are removed or modified
- Secure SIP over Transport Layer Security (TLS) (SIPS): Encryption and authentication of SIP messages, SIP over WSS for WebRTC
- Secure Real-time Transport Protocol (SRTP): Encryption of audio and video streams SDES and DTLS crypto key negotiation (AES 128/256)
- Dynamic audio and video port firewall pinholing
- Signature based SIP Intrusion Detection System (IDS) and dynamic blacklisting
- · SIP authentication (http digest) of clients and gateways
- Enhanced media latching
- Integrated NGINX Light Reverse

Com base nas informações acima citadas sobre a tecnologia embarcada no equipamento e segurança do sistema, reiteramos que atendemos integralmente ao subitem 7.4.2.2.

4.3) Do suposto não atendimento ao subitem 7.9.5.4

Conforme determina expressamente no Memorial Descritivo no subitem:

"7.9. Licença de Usuários

(...)

7.9.5.4. Efetuar e receber chamadas de vídeo ponto a ponto com codec H.264. Para as chamadas de vídeo, deverá implementar as resoluções: 480p, 720p e 1080p. A resolução Full HD deverá estar disponível para desktop;" Destaques nossos



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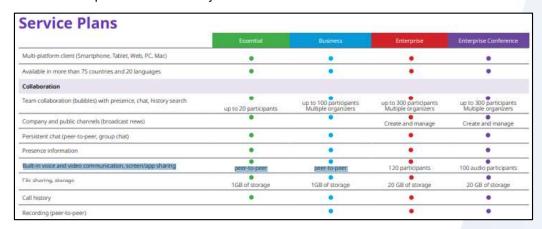


Aduz a Recorrente que o produto não é capaz de suportar 1080p de resolução.

Porém, a solução de comunicação ofertada, qual seja "Rainbow" conta atualmente com os seguintes codecs para comunicação WebRTC P2P:

- OPUS para áudio
- VP8 ou H.264 para compartilhamento de vídeo e tela,

Os codecs WebRTC são capazes de acelerar dinamicamente tanto a resolução quanto as taxas de bit. E com relação a resolução máxima das comunicações ponto a ponto (P2P), reiteramos através dos documentos anexados inicialmente "rainbow-solutionsheet-en.pdf" e "Rainbow Network Requirements - 2019 07 11 - Ed13.pdf", que os vídeos tanto no mobile, quanto no desktop são de alta definição.



Com base nas informações citadas e documentação técnica enviada inicialmente, os codecs e resolução do Rainbow atendem as especificações e consequentemente ao subitem 7.9.5.4.

4.3) Do suposto não atendimento ao subitem 7.11.10

Conforme determina expressamente no Memorial Descritivo no subitem:

"7.11. Licença de Session Border Controller

(...)



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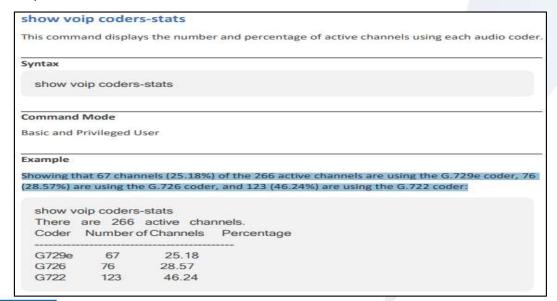
7.11.10. Possibilitar chamadas de voz com CODECS de voz segundo as normas ITU-T G.711 (a-law e u-law), G722, G.729 A ou AB, e Opus;." Destaques nossos

A Recorrente informar que a solução de controle de sessão de borda ofertada não suporta o codec G.722 e G.729.

O OpenTouch Session Border Controller atende aos codecs mencionados e inicialmente evidenciamos o atendimento dos codecs G.711A/G.711 Mu Law, através da imagem capturada do datasheet "opentouch-sbc-datasheet-en.pdf", página 02 (dois), trecho Interoperability and protocols, abaixo em destaque:

> Audio and video codec filtering Audio software transcoding: - inband DTMF → G711A/G711Mu law Opus, Silk

Deste modo, reiteramos o atendimento dos codecs G.722 e G.729, que são evidenciados através do documento enviado inicialmente novamente anexado otsbc2.x am CLI Reference Guide 8AL90542USAE 2 en.pdf", inclusive, como exemplo" exibimos um comando que exibe o número e porcentagem de canais ativos usando cada tipo de codificador de áudio, o que pode ser conferido na página 85 (oitenta e cinco), abaixo em destaque:





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Com base nas informações citadas e documentação técnica enviada inicialmente, entendemos que os codecs do SBC e consequentemente o subitem 7.11.10 é atendido integralmente.

4.4) Do suposto não atendimento ao subitem 7.11.16.3

Conforme determina expressamente no Memorial Descritivo no subitem:

"7.11. Licença de Session Border Controller

(...)

7.11.16.3. IPS (intrusion prevention systems);" Destaques nossos

A Recorrente informa que a solução de controle de sessão de borda ofertada não suporta o recurso de prevenção à invasão IPS.

Porém, o OpenTouch Session Border Controller está preparado para ciberataques e a Alcatel-Lucent, ciente da importância da segurança da informação e visando uma operação correta, conseguirá impedir intrusões através da composição dos seus itens de segurança.

Será realizado pelo Sistema de Detecção de Invasão (IDS) a análise e monitoração do tráfego da rede, em busca de sinais de eventuais invasores que sejam uma ameaça para se infiltrar roubo de dados. Assim como, a comparação de atividade da rede atual a um banco de dados de ameaças conhecida para detectar vários tipos de comportamento, como violações de políticas de segurança, malware e verificações de portas.

Assim, evidenciamos o atendimento através da imagem capturada do datasheet "opentouch-sbc-datasheet-en.pdf", página 02 (dois), trecho Security:



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Security

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- Signature based SIP Intrusion Detection System (IDS) and dynamic blacklisting

Sobre o Sistema de Prevenção de Intrusões (IPS), este está situado na mesma área da rede que um firewall, entre o mundo externo e a rede interna. E na composição da solução este recurso será atendido.

Com base nas informações citadas e documentação técnica enviada inicialmente, concluímos que os requisitos de segurança do sistema do SBC e consequentemente o subitem 7.11.16.3 é atendido.

4.5) Do suposto não atendimento ao subitem 7.11.16.8

Conforme determina expressamente no Memorial Descritivo no subitem:

"7.11. Licença de Session Border Controller

(...)

7.11.16.8. Prover facilidades de controle de acesso como lista branca e lista negra dinâmica." Destaques nossos

Supõe a Recorrente que a solução de controle de sessão de borda ofertada só suporta lista branca.





O OpenTouch Session Border Controller possui controle de acesso e evidenciamos o atendimento da lista negra dinâmica (dynamic blacklisting) através da imagem capturada do datasheet "opentouch-sbc-datasheet-en.pdf", página 02 (dois), trecho Security:

Security

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- Distributed denial of service (DDOS) prevention: L3/L4 and SIP
- SIP stateful inspection: Prevents DDOS attacks based on fraudulent SIP messages
- SIP topology hiding: SIP headers that disclose internal IP topology are removed or modified
- Secure SIP over Transport Layer Security (TLS) (SIPS): Encryption and authentication of SIP messages, SIP over WSS for WebRTC
- Secure Real-time Transport Protocol (SRTP): Encryption of audio and video streams SDES and DTLS crypto key negotiation (AES 128/256)
- Dynamic audio and video port firewall pinholing
- Signature based SIP Intrusion Detection System (IDS) and dynamic blacklisting

Adicionalmente, através de exemplos de comandos de configuração de tabela de políticas de mensagem e tabela de classificação, evidenciamos o funcionamento da lista branca de ambas. através documento negra, ou seja, "otsbc2.x_am_CLI_Reference_Guide_8AL90542USAE_2_en.pdf", páginas 391 (trezentos e noventa e um) e 413 (quatrocentos e treze), vejamos:





message-policy

This command configures the Message Policies table, which lets you define SIP Message Policy rules.

Syntax

(config-voip)# message message-policy <Index> (message-policy-<Index>)#

Command	Description
Index	Defines the table row index.
body-list	Defines the SIP body type (i.e., value of the Content-Type header) to blacklist or whitelist.
<pre>body-list-type {policy- blacklist policy- whitelist}</pre>	Defines the policy (blacklist or whitelist) for the SIP body specified in the 'Body List' parameter (above).
max-body-length	Defines the maximum SIP message body length.
max-header-length	Defines the maximum SIP header length.
max-message-length	Defines the maximum SIP message length.
max-num-bodies	Defines the maximum number of bodies (e.g., SDP in the SIP message.
max-num-headers	Defines the maximum number of SIP headers.
method-list	Defines SIP methods (e.g., INVITE\BYE) to blacklist or whitelist.
method-list-type {policy- blacklist policy- whitelist}	Defines the policy (blacklist or whitelist) for the SIP methods specified in the 'Method List' parameter (above).

Syntax

(config-voip)# sbc classification <Index> (classification-<Index>)#

Command	Description
Index	Defines the table row index.
action-type (allow deny)	Defines a whitelist or blacklist for the matched incoming SIP dialog.





Com base nas informações citadas e documentação técnica enviada inicialmente, reiteramos o pleno atendimento aos requisitos de white e black list, logo, ao subitem 7.11.16.8.

Note-se que a Recorrente apresentou tempestivamente a proposta técnica solicitada pela ESgás, e ainda, enviou a carta emitida pela fabricante Alcatel-Lucent com o fito de comprovar a qualidade de revendedora autorizada para venda de todos os produtos, licenças, sobressalentes e acessórios na solução de comunicação unificada RAINBOW, OmniPCX Enterprise, OTEC, Switches (LAN), Pontos de Acesso (WLAN), entre outras soluções do nosso portfólio, com capacidade de realizar serviços de projeção, instalação, implantação, ativação, manutenção, atualização e suporte técnico nas soluções ofertadas, possuindo certificação "Expert Telephony Unified **Business** Partner" Business communications, em Collaboration/Conferencing.

De modo, que diligências foram realizadas, a fim de sanar eventuais dúvidas e para verificar a exigibilidade, conforme prevê o artigo 2º da Lei 13.303/2016.

É totalmente notório o desespero da Recorrente pela busca em apenas tumultuar e postergar o processo, visto que em seu recurso ela sequer informa ou descreve os motivos do suposto não atendimento dos itens referenciados, isto, conclui-se, mais uma vez que as informações são infundadas, uma vez que não existem argumentos plausíveis para comprovação contraria ao atendimento da solução ofertada.

Dessa forma, ratificamos o pleno atendimento ao Edital e nos comprometemos a cumprir todos os serviços a serem executados, conforme todas as exigências Editalícias.

Como se vê, os argumentos da Recorrente são meramente protelatórios, já que desprovidos de fundamentos e elementos aptos a comprovar as suas alegações. Assim, demonstrando total competência da equipe da ESGás ao analisar toda a documentação exigida em Edital. Uma vez que o órgão contratante aceitou e habilitou a proposta e documentação técnica, causando espanto que a licitante Recorrente tente desacreditar a capacidade de análise do Sr. Pregoeiro e de sua equipe, mesmo após a ocorrência de diligência.





Ora digníssimo Pregoeiro e sua Equipe de Apoio, requer que preze pelo zelo e empenho em guardar o caráter isonômico do procedimento, respeitando os Princípios da Legalidade, da Impessoalidade, da Moralidade Administrativa, entendemos, com toda *vênia*, que a **3CORP** atende todos os requisitos do Edital, não devendo se quer prosperar o Recurso interposto pela Recorrente, com base no que aqui estamos exaustivamente demonstrando.

5) DO MÉRITO

Restou-se evidente que a Recorrente tem como intuito tumultuar o processo, fazendo alegações de descumprimento às exigências do Edital pela Recorrida, o que ficou demonstrado ser improcedente, vez que restou demonstrado que há integral cumprimento as disposições do Edital e seus anexos, passando assim a buscar alegações desprovidas e infundadas para tentar desclassificar a empresa vencedora e desacreditar a decisão da comissão de licitação deste estimado órgão, o que não merece prosperar.

É pacífico na melhor doutrina pátria que, se por um lado a vinculação ao instrumento convocatório constitui princípio basilar das licitações, não menos verdadeiro é que tal vinculação é instrumental, constituindo ferramenta posta à disposição do Administrador, bem como dos interessados, para assegurar o fim que se busca obter, qual seja, a busca do melhor negócio para a Administração.

A desclassificação de uma proposta somente ocorrerá na verificação de erro que comprometa a exequibilidade do objeto. A tendência do direito tem sido a de relevar aspectos redundantes e formais que provoquem a desclassificação de empresas idôneas.

"TC 000.175/95-1: Que no julgamento de contas e na fiscalização que lhe incumbe, o TCU decidirá não só quanto a legalidade e legitimidade, mas também sobre a economicidade dos atos de gestão praticados pelos responsáveis sujeitos à sua jurisdição (cf. art. 1º, § 1º, da Lei nº 8.443/92)"





Inquestionável que as alegações trazidas são facilmente superadas com a análise correta da proposta, não podendo de modo algum constituir motivo suficiente para reforma da decisão proferida.

Nota-se pela fragilidade dos argumentos, que a irresignação recursal da Recorrente tão somente relevando a vontade de frustrar ao certame, buscando apenas tumultuar o procedimento licitatório por meio de argumentos as quais tem conhecimento de que não prevalecem, seja no TCU, no Judiciário ou na doutrina, inclusive cita decisões contraria a sua tese.

Vale ressaltar que a Recorrente demonstra, nada mais do que um estranho inconformismo neste procedimento licitatório, o qual foi vencido pela Recorrida de acordo com os princípios constitucionais da legalidade, da impessoalidade, da moralidade, da publicidade e da eficiência (art. 37, CF).

Em virtude disso, a Recorrente tenta, por todos os meios, induzir a R. Comissão ao erro, tumultuando o procedimento licitatório, com o intuito de reverter a decisão exarada por essa respeitável Comissão, o que não deve prosperar.

6) DA CONCLUSÃO

De qualquer forma, ante o exposto, evidencia-se que o pedido da empresa Recorrente **não deve prosperar** visto que a **3CORP** atende plenamente aos requisitos do Edital e que o Sr. Pregoeiro agiu no mais estrito cumprimento das regras Editalícias, procedendo com lisura o processo.

7) DO PEDIDO

Por todo o exposto, requer a **3CORP TECHNOLOGY INFRAESTRUTURA DE TELECOM LTDA.**, ora Recorrida, que sejam apreciadas as contrarrazões para confirmar a decisão prolatada no processo licitatório, mantendo assim o não conhecimento do recurso da Recorrente, e que a Egrégia Comissão de Licitação rejeite o pedido formulado pela empresa **BETTA SOLUÇÕES DE**





ATENDIMENTO LTDA. negando-lhe o provimento e mantendo/confirmando a decisão que classificou a empresa **3CORP** como vencedora deste certame licitatório.

Cabendo por fim reforçar que, a decisão proferida pelo digníssimo Pregoeiro e sua Equipe de Apoio deve ser mantida, pois a 3CORP atende todos os requisitos do Edital e seus anexos, com base no que exaustivamente foi demonstrado.

Caso contrário solicitamos que tal decisão seja submetida à autoridade superior competente.

Informamos que os documentos enviados inicialmente encontram-se no diretório https://3corp-my.sharepoint.com/:f:/g/personal/beatriz santos 3corp com br/EvYL-3ngB3dAk6eYERvCBawBmO5SlzXRcz8XXh36jEdv2Q?e=HVsSEE

Termos em que, pede deferimento.

Santana de Parnaíba, 23 de Setembro de 2022.

04.238.297/0001-89

3CORP TECHNOLOGY INFRAESTRUTURA DE TELECOM LTDA

Alameda Oceania, Nº 56, Polo Empresarial Tamboré - CEP: 06.543-308 _ Santana de Parnaiba - SP _

GILBERTO ZÁCARO JUNIOR SÓCIO - DIRETOR

RG: 13.189.904-1 SSP/SP CPF: 043.669.268.65 **3CORP TECHNOLOGY**

INFRAESTRUTURA DE TELECOM LTDA



SCN QD 4 BL B N° 100 SI 1201,



8088 Smart DeskPhone for huddle room **OmniPCX Enterprise Business**





The 8088 Smart DeskPhone is a high end terminal intended for use for huddle room when connected to

With its touch screen and built-in interactive capabilities, the 8088 Smart DeskPhone can deliver the comfort and convenience you are looking for.

This model offers enhanced ergonomical features for more effective communication.

Thank you for choosing this phone.

This manual describes the services offered by the 8088 Smart DeskPhone connected to an OmniPCX Enterprise system.



The 8088 Smart DeskPhone can be provided with or without an embedded camera. All video features described in this manual are available with the 8088 Smart DeskPhone with camera or if you have connected an external camera to the phone.

The availability of some functions described in this manual may depend on the version or configuration of your system.

The labels and icons presented in this document are not contractually binding and may be modified without prior warning. The pictures are not contractually binding and are not localized.

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1 Getting to know your telephone

1.1 Phone description



- Sensitive LCD wide screen with ambient light sensor.
- Embedded HD Video camera with shutter. Swipe the shutter right or left to use or hide the camera. This feature depends on the model of your telephone.
- Permanent feature keys: quick access to the phone's main features.
- Bluetooth® handset for optimized communication. A wired handset is also available and can replace the Bluetooth® handset.
- Wideband loudspeaker for optimized sound.
- LED
 - Arrival of a new call (Flashing).
- 7 An adjustable and stable foot.
- 3.5 mm and 4 pin stereo headset jack.
- 9 Microphone.

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1.2 Description of the connectors

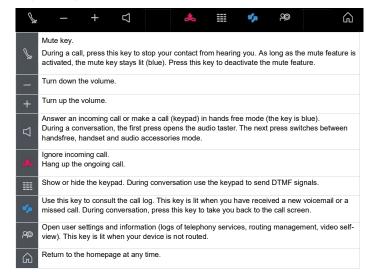
Various connections to allow phone extensions.



Add-on module connector (SATA type). 1 Two Universal Serial Bus (USB) ports (1.1/2.0) to connect an external camera, audio equipment, a low smartphone charger or USB stick. HDMI® 1.4 output for screen replication and for dedicated HD video display. 3 10/100/1000 Mbps Ethernet connectors to a PC (RJ45). 4 10/100/1000 Mbps Ethernet connectors to the enterprise network (LAN - RJ45). DC power jack for an external power adaptor. Wired handset connector (RJ9). 7



1.3 Permanent features keysThey are located just below the touch screen.





1.4 About the homepage



Homepage in standard mode

Homepage in business mode (Business)

Choose your homepage

- Settings > Application > Homepage
- Business) if enabled, the phone displays homepage in business mode otherwise in standard mode.

Personal area

This area displays information about the user's phone and configuration, including last name, first name, avatar, and routing. The colored bar under your photo/avatar shows your present status.

Routing profile Access programming and configuration of routing profiles.

User Information Information about the user: lastname, firstname, phone number,...

Pressing this menu item starts the self video on your phone. You can then adjust Video

Notifications area

In idle state: This area displays information on the latest phone events, such as missed calls

nand voice messages.

During a call: Call status (ongoing, on hold, incoming call) is shown in this area. Pressing this area during a call takes you back to the call screen.

Call status

Incoming call.



Ongoing video call.



Ongoing call. Call on hold.







Date, time and connectivity area

This area displays time, date, connectivity and customization information (wake-up on, intercom mode on).

mode on).	
Ψ	USB Accessory or storage device connected to USB port.
(X)	Bluetooth® device pairing in progress.
*	Bluetooth® device connected (Other than your Bluetooth® handset).
\mathbf{C}	Headset plugged in.
(C)	Alarm programmed.
!	Silent ring activated.
AUTO	Interphony (See chapter: Receiving intercom calls).
	External camera plugged in. (white color).
	Video running.
~	Identity secrecy activated.
口口	Upgrade download. All features of the set are available during the upgrade. This icon is displayed until the upgrade is complete.
VolP	No VoIP connection. Communication is not possible. For more information, contact your installer or administrator.
	This icon appears when you are not connected to the data server (safe mode, authentication failed or problem with the server). All features are unaccessible. You can still call using the dialpad.
A	No ethernet link





Active area

This area is reserved for running applications and for previews of applications selected by the user.

When you start an application, it is displayed in the active zone. If no application has been launched, the active zone displays the application previews that you have preset on the homepage. An application preview allows you to view this application information and easily access it.

Applications that can be previewed are: History, Favorites, Dial-pad.

Add or delete an application in the active area

- Settings > Application > Homepage
- Select the application that you want to add to the homepage or delete from the
- homepage (History, Favorites, Dial-pad).
 Activate or deactivate preview of the application (yes or no).
 Back to homepage.



Applications bar (Homepage in business mode).

This area allows access to all applications and to different features of the running application.



Applications area (Homepage in standard mode).

You can access your phone applications from this area. Press the application button to access the application. Once you run an application, the display is the same as the business mode display.

Programmable keys are available in this mode. (See: Programming a direct shortcut for a

contact.).

	Make a call.	മ	To access voice mail functions.
	Open the dial keypad to make a conversation.	*	This application contains favorite contacts that you have selected from your list of contacts. Call a contact from the favorites application.
	Search for a contact.	1	Make a call using your list of contacts.
*	Access the settings menu.	(2)	This application is for synchronizing your address book and agenda between your phone and your PC Microsoft® Outlook application.
	This application allows you to manage audio files and images.		Set an alarm.
K	The history application shows two tabs, listing new phone events such as missed calls, and older phone events		



1.5 Navigation

The phone set homepage can be viewed in standard or advanced mode. Scroll your finger up or down to get the page or menus scrolling vertically (in advanced mode), or scroll right or left to get the page scrolling horizontally. (in standard mode only).



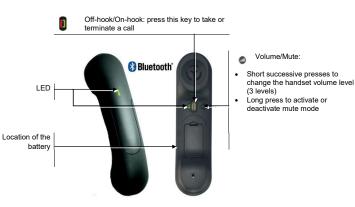
Homepage in standard mode

Homepage in business mode (Business)

Make your selection by pressing the right icon on the sensitive screen.	3
In standard mode, personalize the homepage by pressing and holding.	<u>(25)</u>
Scroll through the application area pages (advanced mode) or the application bar (business mode). In standard mode only, you can have up to 2 pages.	$\overline{\mathcal{D}}$
Scroll the list (call log, contacts).	
First press: back to the previous homepage page. Second press: back to the first homepage page.	
This dark greyed circle symbolizes the current page (default skin).	
This light greyed circle symbolizes another available page (default skin).	



1.6 Bluetooth® Wireless handset



If the Bluetooth® handset is on its base, you do not need to press the Off-hook/On-hook key to take or terminate the call. Just off-hook/on-hook the Bluetooth® handset.

LED indication when using the handset (paired)

- Off: operating normally.
- Green flashing: in communication.
- Green steady: handset charging.
- Orange flashing: battery charge low or handset outside coverage zone.
- Orange steady: malfunction.

The 3-note tone indicates that the handset has been installed correctly (the LED flashes green or orange depending on the battery charge level).

Installing or replacing the Bluetooth® handset battery

- 1 Lift up the battery cover
- ② Slide out the battery holding part



The battery recharges when the Bluetooth® handset is on its base.



1.7 Install a comfort wired handset

You can install a wired handset in place of the Bluetooth® Wireless Handset.

- Remove the rubber.
- Plug-in the wired handset to the appropriate connector (refer to phone description).
 - Make sure you position the cable correctly in the compartment intended for that purpose:
- Switch off the Bluetooth® Wireless Handset (press and hold the On/Off hook key until you hear two distinct tones).



1.8 HDMI connector

Your set is equipped with an HDMI 1.4 output for a better video experience.

The 8088 Smart DeskPhone can be connected to a large screen or video projector. Moreover, an external camera can be connected to the phone to broadcast the entire room. Your deskphone can easily find its place in a meeting room.

There are two ways to use the HDMI connector

- Broadcast the video conversation (HD capability).
- Broadcast the entire display of the phone.

Your set has to be connected to the appropriate equipment.

Broadcast the video conversation (HD capability)

- Use one of the following:
 - o During the video conversation, swipe up on the video displayed on the phone to broadcast it to the equipment connected via HDMI.
 - To stop the broadcast, swipe down on the video displayed on the phone.



Select the HDMI button.



Broadcast the entire display of the phone

To broadcast the entire display of the phone or stop the broadcast, you have to activate or deactivate

- Settings
- Device > Display > Clone display to HDMI
- Activate or deactivate the HDMI output
- Back to homepage.



2 Using your telephone





2.1 Making a call

- Use one of the following:
 - Dial directly the number for your call.
 - Lift the receiver) Enter the destination number
 - Press the on-hook/off-hook key of the Bluetooth® device. (Bluetooth® Wireless handset) > Dial the destination number.
 - Dialer. Dial the destination number.
 - Use the dialpad preview to dial the destination number (Homepage in business mode).
 - Hands free > Dial the destination number.
 - Programmed line key.
 - Search by name.
- Press the call icon to call your contact.

To make an external call, dial the outside line access code before dialing your contact number. The default outside-line access code is usually 0. However, please check this code with your installer.

End the call

- Use one of the following:
 - o Hang up the handset.
 - Press on the On-hook key on the permanent features keys panel.
 - On-hook key on the Bluetooth® handset.



2.2 Make a call using the personal phone book (Contacts)

- Contacts
- Select the contact to call >> Information regarding your contact is displayed on the screen.
- Press the call icon to call your contact.

If there are several numbers for the same contact, select the desired number.

2.3 Using call by name

- . P Search
- Enter the first letters of your contact name.
- >>> The names of contacts matching your search criteria are automatically displayed on the
- Call your contact by choosing him/her in the list.
- If you wish you can also display your contact complete file.

When searching by name, results are displayed showing all matching names followed by first names. You can also search by initials. Type the initials of first name and surname, separated by a space. All first names/names matching these initials will be displayed in the search.

2.4 Call from call log (History)
All incoming, outgoing, missed or unanswered calls are displayed in the call log.
You can call back from your phone call log.

- Access the call log by pressing the Communication key.

 - Select the tab: History) All call logs are displayed.
 Select the tab: New) Only new missed calls are displayed.
- Use one of the following:
 - Glske Maja Call your contact directly by selecting the badge.
 - Select the contact to call.
 - Answered outgoing call
 - Unanswered outgoing call
- . Callback

If there are several numbers for the same contact, select the desired number.



Alcatel·Lucent 1

2.5 Call back one of the last numbers dialed

- Open the dialpad.
 Select the contact to call in the list of last number dialed.
- Press the call icon to call your contact / Call your contact directly by selecting the badge.

2.6 Redialing the last number dialed (redial)

- Open the dialpad.
- Select twice to call the last number dialed.

2.7 Call a contact from the favorites application (Favorites)

Favorites: This application contains favorite contacts that you have selected in your personal directory.

- Use one of the following:
 - Favorites

Contacts
Select the tab: Favorites.

- All contacts defined as a favorite are displayed.
- Select the contact to call.

If there are several numbers for the same contact, select the desired number.

Refer to chapter: "Define a contact as a favorite ".

2.8 Answer the call

- Use one of the following:

 - Answer

 Take the handset off the hook.
 - Handsfree key.
 - Off-hook key on the Bluetooth® handset.

End the call

- Use one of the following:
 - Hang up the handset.
 - End call
 - On-hook key on the Bluetooth® handset.

2.9 Ignore call

- Use one of the following:
 - o signore
 - Press on the On-hook key on the permanent features keys panel.

 Your phone no longer rings but your caller still hears the ringing tone.

You can still answer the call after you have ignored it.

2.10 Using the telephone in 'Hands free' mode

- Handsfree key:
 - o Press on the handsfree mode.
 - The handsfree mode is activated.

When the handfree is activated, the corresponding feature key is lit blue.

To take the call back with the handset

- - o If the handset is off hook: Press the 'handsfree' key again > Handset.
 - o Off-hook key on the Bluetooth® handset.

To go back to 'handsfree' mode

- Press the 'handsfree' key again) Press on the handsfree mode.
- You can hang-up the handset.

2.11 Adjust ringer volume while a call arrives

- The telephone rings when a call is received.
- Decrease volume.
- Increase volume.

2.12 Adjust the loudspeaker and the handset volume

- During a call, to adjust the volume level of the loudspeaker or receiver:
- Decrease volume.
- Increase volume.



2.13 Mask my identity
You can hide your identity before sending your call.

- · Use one of the following:
 - Select the feature
 Press verification
 - o Press your information area in the top left corner of the screen.
- User Information
- Press on anonymous icon to activate or deactivate the secret identity.
- Back to homepage.

2.14 Contact call log
You can display the history of all calls (received calls, missed calls, and so on).

- Access the call log by pressing the Communication key.

 Select the tab: History >> All call logs are displayed.

 - Select the tab: New >> Only new missed calls are displayed.
- Select the appropriate tab.

 Select the recipient from the call log.
- Your contact's details are displayed on the screen along with the history of all his/her calls (missed calls, received calls, voicemail, etc.).

2.15 Delete one call log event

- Access the call log by pressing the Communication key.
- Select tab: History
- Press the desired event:
- × Delete

2.16 Delete events from the call log

- Access the call log by pressing the Communication key.
- Select tab: History
- Delete all
- Confirm deletion of all call log events: Yes.

If your call log contains unread events, a warning message is displayed on the screen. If a filter is activated, you will only be able to delete events sorted by the filter.



2.17 Consulting your voice mailbox
Usually a non answered call is automatically forwarded to the voicemail box.



You are notified of a new voicemail message (notification zone). The number of new voice messages is displayed.

- Use one of the following:
 - Press the voicemail messages notification button in the top middle area of the screen.



- On the homepage, press the voice mail key.
- Enter the password to access the visual voice mail. Follow the instructions of the voice guide

2.18 Immediate forward to a number
The number can be your home, mobile, voice mailbox or an internal extension (operator, etc.).

- Use one of the following:

 - Press the User services key.
 Press your information area in the top left corner of the screen.
- Routing profile
- Immediate forward to.
- Number of diversion telephone.

You can also enter a number via the search by name feature, the list of contacts, the history, the favorites or the latest dialed number.



- Confirm.
- Forward is activated (The forward key lights blue if configured so in: Settings) Device) Phone configuration > Routing Led)

 The activated feature is indicated in your personal information area in the top left corner of the

The forward key is not lit when no forward is activated.

When you create a forward, it will be added to the list of available forwards so that you can reuse it.

If a number or user is defined, just select the line to activate the forward.



2.19 Immediate forward to voice mailbox • Use one of the following:

- - Press the User services key.
 Press your information area in the top left corner of the screen.
- Routing profile
- Immediate forward to voicemail
- Forward is activated (The forward key lights blue if configured so in: Settings) Device) Phone

configuration > Routing Led).

The activated feature is indicated in your personal information area in the top left corner of the

The forward key is not lit when no forward is activated.

When you create a forward, it will be added to the list of available forwards so that you can reuse it.

2.20 Routing profile
Call routing lets you to choose which devices will ring when you receive an incoming call.

Select a routing profile

Use one of the following:

- Press the User services key.

 Press your information area in the top left corner of the screen.
- Routing profile
- Select a routing profile in the list.

Create a new routing profile

Use one of the following:
 Press the User services key.

- Press your information area in the top left corner of the screen.
 Routing profile
- + Add
- Select the forward type to program: Immediate forward, Forward if busy, If no reply, If busy/no reply.
- Select the destination of the forward: Associate, Attendant, Mobile, Voicemail, Other.
- Save the routing profile > the new routing profile is added to the list of available forwards.

Modify a routing profile • Use one of the following:

- - Press the User services key.

 Press your information area in the top left corner of the screen.
- Routing profile
- Modify
- Modify a routing profile.
- Save the routing profile.



- Delete a routing profile

 Use one of the following:

 Press the User services key.

o Press your information area in the top left corner of the screen.

- Routing profile
- Delete
- Delete a routing profile.



Confirm.

You can not delete a predefined routing profile.

2.21 Set an alarm

- (P) Alarm
- Enter the alarm time.
- Select the melody of your choice.
- Adjust the alarm volume.
- Enable the feature.
- >> The associated LED is on: the feature is enabled.
- >> The icon is displayed (connectivity information zone).

When the alarm bell rings, you can choose to repeat the alarm or turn it off.



3 During a conversation



3.1 Putting a caller on hold

- You are in communication:
- On hold

>> Your call is placed on hold.

Your caller hears on-hold music or a tone until you pick the call up again.

Recover the call on hold

- Use one of the following:
 - Select the caller on hold from the call log or the notification area. o Retrieve
- You are back on the call with your caller.

Calling a second person during a conversation You are in communication.

- - New call
- Call the second person.
- Call >> The first call is on hold.



3.3 Receiving a second call

- During a conversation, another person is trying to call you)) Name or no. of the caller displayed for 3 seconds. Your are alerted with 3 beeps.
 - Answer call >> The first call is on hold.

Ignore incoming call.

To return to your first caller and end the conversation in progress:

- End the call. Use one of the following:
 - o Press on the On-hook key on the permanent features keys panel.
 - o On-hook key on the Bluetooth® handset.
- Recover the call on hold. Use one of the following:
 - Select the caller on hold from the call log or the notification area.

- 3.4 Switching between calls (Broker call)

 You are in communication with a first caller.

 A second caller is on hold.

 - Switch from one caller to another by selecting the caller on hold in the call log.

 You are in communication with the second contact: First call is automatically placed on hold.

3.5 Transferring a call

You are in communication with a first caller.

- You want to transfer the call to another contact.
- Call the recipient of the transfer.
- Call the recipient of the datistic.

 You can directly call the person by dialing his/her number, select the person to call from the call log, or use the search by name feature to call the second person.
- You can transfer the call immediately or wait for your contact to answer before transferring the
- Transfer >> The two callers are connected.



You are in communication with a first caller. A second caller is on hold.

- You want to connect the first caller with the second.
- Transfer
- The two callers are connected.

3.6 Mute, so that your caller cannot hear you

During the call, you do not wish your caller to hear you.

- Use one of the following:
 Press your phone Mute key.

Mute mode is activated (The key is blue). Your caller can no longer hear you.

Press the key again to go back to normal mode.

Press and hold the Mute key of the Bluetooth® Wireless handset. Press the key again to go back to normal mode.

3.7 Voice frequency
During a conversation you sometimes have to send DTMF signals, such as with a voice server, an automated attendant or a remotely consulted answering machine.

If DTMF is activated by default on your system

- Dialer
- Enter the requested codes.

If DTMF is not activated by default on your system

- III DTMF.
- Enter the requested codes.

The function is automatically cancelled when you hang up.

Depending on the system configuration, the DTMF can be activated by default. For more information, contact your installer or administrator.

3.8 Setting Auto volume
This feature allows the phone to control the in-call audio volume and ensure a constant audio volume.

You are in communication.

- Handsfree key:
 - Press the auto volume feature key.
 - >> The phone controls the in-call audio volume.



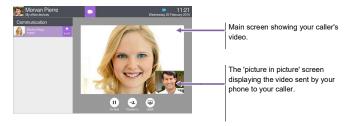
4 Video call

4.1 Video call

To use this feature, both your phone and your caller's phone must have the feature enabled. The phones

must also be able to handle video.

During a video call, the screen comprises two areas. The main screen shows your callers video and the 'picture in the picture' screen in the bottom right of the main screen shows your video.



4.2 Start a video callA video call can be started only once you are in audio conversation with your caller.

Call your caller. >> Your caller answers, you are in audio communication.

Make sure that your contact's phone supports video calls.

- Press the video icon displayed below your caller details to start the video call.
- The call status in the notification area is changed once you start the video call.
- Once you start the video call, your caller sees the video sent by your phone. He/She is invited to press the 'picture in the picture' screen to start the video call

You can handle a video conference by joigning a scheduled video conference.



4.3 Mute/unmute the video call

During a video call, either person can freeze video transmission. Audio transmission is not frozen.

- Press anywhere on the 'picture in the picture' on the screen to mute your video. Your caller will no longer see your video.
- Press anywhere on the 'picture in the picture' on the screen to unfreeze the video. Your caller can now see your video

The 'picture in picture' can be hidden. In order to mute or unmute your video, the 'picture in picture' must be displayed on your phone

4.4 Hide/Show the 'picture in picture'
You can choose to hide or show the 'picture in picture'

Long press or double tap on the main video screen or the 'picture in picture' to hide or show

When you hide the 'picture in picture' only the video from your contact is displayed.

4.5 Display video in fullscreen mode

- Press anywhere on the main video screen to display the video in fullscreen mode.
- Press anywhere on the main video screen to display the video in normal mode.

4.6 Receiving a second call

Answering a second call during a conversation
If you answer the incoming call, the ongoing video and audio call are put on hold. Retrieve the video call on hold the same way as an audio call. During your conversation with the second call, your contact, who is on hold, can see your contact details.

- When you are on a video call, the video is stopped when you transfer the call.
- When you start recording the call, the video is stopped (only audio communication is recorded).

Ignoring a second call:

When you ignore a second call the video communication is normally continued.



5 Contacts management

5.1 Define a contact

- Contacts
- Add new contact
- Fill in the contact file.
 - You must provide at least a last name
- Back
- · Your contact is added to the directory.

For external numbers, we recommend you use canonical address formats comprising '+', followed by the country code (e.g. '33') then the number without the first digit. For example, for 0390670000, enter the number +3390670000. To get the '+' sign, long press on the '0' key. This example is for calling a number in France from another country.

You can associate a picture to the contact.

- Copy the picture from an USB storage device on the phone local memory.
- You can remove the USB storage device.
- Enter the following path in the picture field: /data/FileManager/ followed by the name of the
- This picture will then appear on your phone each time you will be in conversation with your

An external server (LDAP) may be available in your company for the contacts management. When pictures are associated to these contacts, those pictures will only be displayed when doing a dial by

5.2 Add a contact from the call log

- Access the call log by pressing the Communication key.
- Select the tab: History
- Select the caller.
- Add
- Fill in the contact file.
- ⊕ Back



5.3 Make a call using the personal phone book (Contacts)

Contacts
Select the contact to call.

) Information regarding your contact is displayed on the screen.

Press the call icon to call your contact.

If there are several numbers for the same contact, select the desired number.

5.4 Modify a contact

• Contacts

Select the contact to modify

₽ Edit

Change the contact file.

• Back

You can modify a contact while you are on a call.

5.5 Delete a contact

• Contacts

Select the contact to delete.

Delete

• Yes

5.6 FavoritesThis application contains favorite contacts that you have selected in your personal directory (Address

Most frequently called contacts can be defined as a favorite.

Contacts

Select the contact to add to favorites.

* Favorites

The contact has been added to Favorites. The associated key light is on.

You can call your contact directly without selecting them from the personal directory.

• ** Favorites

Select the caller.



To remove a contact from Favorites

• Favorites

Select your favorite contact.

* Favorites

The feature associated led goes off.

5.7 Define a contact as a favorite (Favorites) Most frequently called contacts can be defined as a favorite

Favorite contacts are displayed in the application Favorites.

• Contacts

Select the contact to add to favorites.

* Favorites

>> The contact has been added to Favorites.

>> The associated key light is on.

You can call your contact directly without selecting them from the personal directory.

• Favorites

Select the caller.

To remove a contact from Favorites • Use one of the following:

o Contacts

Select the tab: Favorites

• Favorites

Select the contact you wish to remove from your favorites.

* Favorites

>> The contact is removed from your favorites.

>> The associated key light is off.



5.8 Programming a direct shortcut for a contact. In standard mode, you can program a direct call shortcut on your homepage.

Add a shortcut key

- Press and hold on the screen to enter in the edition mode of the homepage.
- Press the available key you want to program.
- Enter the number to associate with the key by directly entering the number, using the search by name feature, or using your list of contacts.
- Validate number.
- Enter the name to associate with the key.
- Confirm the name.
- Exit the edition mode of the homepage.

Delete a direct call key on the standard homepage

- Press and hold on the screen to enter in the edition mode of the homepage.
- Delete the corresponding shortcut key.
- Exit the edition mode of the homepage.



6 Keypad



At any time, you can show or hide the keypad by swiping up or down the bottom of the screen.

6.1 Change the keyboard typeWhile editing text, you can change the keyboard type to match the language you are writing: AZERTY, QWERTY, QWERTZ, Cyrillic.

- The keyboard is displayed on the screen
 Select the keypad type (AZERTY, QWERTY, QWERTZ, Cyrillic,...).
- Validate your choice.

6.2 Delete a character

When editing a text you might have to correct it.

- Place the cursor after the text to delete by touching the screen.
- Press the delete key of your keyboard.

When you edit a text, you can delete several characters at once.

- Place the cursor before the first character to delete and, keeping your finger in contact with the screen, move to the last character to delete.
- Press the delete key of your keyboard.



6.3 Write in uppercaseBy default, the written characters are in lowercase.

>> The next character will be written in uppercase and then you will automatically switch to lowercase.

Press this key twice. The associated key light is on.

3) Uppercase mode is used for all written characters.

To go back to lowercase mode, press the key again.)) The associated key light is off.

6.4 Write a number

Press this key once.

The associated key light is on. Write numbers.

To go back to alphabetic mode, press the key again.

The associated key light is off.



7 File Manager

This application allows you to manage audio files and images.

- B My files
- Select the file type you want:
 - AudioPicture
- Select where to read the files from: files stored on the phone or on the connected USB device, or both.
- **←** Back

>> All available files of the selected type are displayed.

The display time may take longer if the USB storage device contains too many files.

The display time may take longer if the USB storage device contains too many files. When using an external USB storage device, the files must be stored in a directory that has the same name as the directory name defined in Settings/Application/My files. By default, the defined name of the directory is 'My IC Phone'. If you want to change it, make sure you change it in the phone settings as well as on the USB storage device.

The directory containing audio and/or picture files on the USB external storage device must not contain more than 200 files (the files can be of any type).

7.1 Delete a file

- B My files
- Select the file type you want:
 - AudioPicture
 - Enter delete mode.
 - Delete
- Select the file to delete.
- Confirm deletion.
- Exit delete mode.

You cannot delete a file stored on an external device.



7.2 Copy a file from the external storage device to the phone internal memory My files

Select the file type you want:

AudioPicture

Filters

)) Select the storage device.

Select the file to copy.

7.3 Listen to an audio file

My files

Audio

Filters

)) Display the files for the selected storage device (The phone internal memory or external storage device).

Select the audio file.

>> The audio file plays automatically.

o II) Pause:

Pause

Start listening again:

Play

Stop listening:

Supported audio formats are mp3, aac and wav. When released from the manufacturing plant, the audio files hosted on the phone are ALE International property and can be used as is. When an installer or End-User downloads MP3 files via a USB link, they are responsible for the Intellectual Property Right requirements related to such downloads.



7.4 Play all audio files My files

Audio

Filters:

>> Display the files for the selected storage device (The phone internal memory or external storage device).

Play all:

>> Listening of all audio files has started.

Stop listening:

Stop all.

Start listening again:

Plav

Switch to next track:

Next.

Listen to tracks in random order:

Supported audio formats are mp3, aac and wav.

When released from the manufacturing plant, the audio files hosted on the phone are ALE International property and can be used as is. When an installer or End-User downloads MP3 files via a USB link, they are responsible for the Intellectual Property Right requirements related to such downloads



8 Advanced settings

8.1 Define the phone language

- Settings
- Device >Phone configuration >Language
- Select the language of your choice.
- Ok
- Back to homepage.

8.2 Adjusting the audio functions

- Settings
- Device \(\) Audio
- Your handset allows you to set different ring tones depending on the type of incoming call.
 - o On-site ringing
 - Off-site ringing
 - Special ringing
 - Event ringing
- Select the ring to associate with each type of call.
- Validate your choice.



8.3 Activate/deactivate silent mode

- Settings
- Device \Audio \Silent ringing
- Enable or disable the feature.

8.4 Ring tones

- Settings
- Device \(\rightarrow \) Audio \(\rightarrow \) Beeps before ringing
 - One beep: One beep before ringing.
 - Two beep: Two beeps before ringing.
 - o Three beep: Three beeps before ringing.
- No beep: Ring without beep. Validate your choice.

8.5 Progressive ringing

- Settings
- Settings >Device >Audio >Ascending ringing
- Enable or disable the feature.



8.6 Adjusting the ringer volume

- Settings
 Device \(\) Audio \(\) Ringing volume
- Adjusting the ringer volume (0 to 9).

8.7 Install a jack accessory (headset, handsfree, loudspeaker)

By default, the audio jack of your telephone can be used to connect a headset, hands-free kit or loudspeaker.

When you plug the jack accessory in the jack, a popup asks you for the type of accessory:

- Headset
- Handsfree
- Loudspeaker

If necessary, you can also select the accessory type in the audio settings:

- Settings
- Device Audio Accessory type Jack

After selecting the accessory type, you must specify the jack accessory:

- Jack accessory

 - Handsfree
 - Loudspeaker

8.8 Install an USB accessory

When you plug the accessory in the USB port, the USB accessory is automatically detected. The specific icon is displayed in the connectivity area 4

If you have selected headset as the accessory type, the headset icon is displayed in the connectivity

If necessary, you can also select the accessory type in the audio settings:

- Settings
 Device \ Audio \ Accessory type \ USB
- Ok



After selecting the accessory type, you must specify the jack accessory:

- Jack accessory
 - Headset
 - Handsfree
 - Loudspeaker



8.9 Install a Bluetooth® device (pairing)

You can use Bluetooth® devices such as handsets or headsets with your phone.

To use your Bluetooth® device, it must be paired to the set. To manage the pairing, the Bluetooth® device must be in detectable mode. Refer to your Bluetooth® device documentation to find out how to activate detectable mode.

- Settings
 Device > Bluetooth®
- + Add
- Scan
- >> The set scans for available Bluetooth® devices.
 Select the Bluetooth® device to be paired.
- + Add.
- Enter the device PIN code
- Ok Ok

>>> Bluetooth® device connected.

The specific icon is displayed in the connectivity area After pairing the Bluetooth® accessory, you must define the accessory type.

- Settings

 Device \(\) Audio \(\) Accessory type \(\) BT
- Ok Ok

Select the type of accessory that you have just added:

- Bluetooth® accessory

 Headset

 Handsfree

 - Loudspeaker
 - Ok Ok

If you have selected headset as the accessory type, the headset icon is displayed in the connectivity area: O. All devices other than the ALE International Bluetooth® Wireless Handset will be treated as a



8.10 Install the ALE International Bluetooth® Wireless handset

- Settings
- Device > Bluetooth®
- + Add
- Scan

>> The set scans for available Bluetooth® devices.

- Your Bluetooth® device needs to be prepared for pairing. Take the handset off the hook and switch it off, then press and hold both handset buttons at the same time. You will hear a 3note tone and the LED will flash green and orange.
- >>> Searching for Bluetooth® equipment. Wait for the detected equipment type and address to be
- Select the relevant equipment.
- + Add
- Enter the device PIN code (The default PIN code is 0000).
- Ok Ok

Error messages

>> The 3-note tone indicates that the handset has been installed correctly (the LED flashes green or orange depending on the battery charge level).

After pairing the Bluetooth® accessory, you must define the accessory type in the audio settings.

- Device > Audio > Accessory type > BT > Ok
- Bluetooth® accessory > Headset > Ok

The handset displays an error message indicating that the pairing is unsuccessful >>> Check the status of your Bluetooth® handset or the PIN code.

- 8.11 Uninstall a Bluetooth® device (unpairing)
 - Settings
 - Device > Bluetooth®
 - Select the Bluetooth® device to unpair.
 - X Delete
 - >> The Bluetooth® device is uninstalled (unpaired).



8.12 Hearing aid kit

If you are using your phone with a hearing device, you must install and activate the hearing aid device (HAC) to avoid hearing discomfort.

- Settings
 Device > Audio > Hearing aid
- Enable the feature: YES
- >> The hearing aid kit is activated.

8.13 Phone wallpaper

You can change the wallpaper on your phone. The image must be stored in the set or on a USB storage

If the image is on the USB storage device, you must connect it to the phone:

- Insert your USB device at the back of the phone
- The icon is displayed (connectivity information zone).

Change the wallpaper My files

- Picture
- >> The list of images on the USB device is also displayed.
- Filters

 Display the files for the selected storage device.
- Select the image.

Wallpaper

The selected image is set as wallpaper.

Supported image formats are: bmp, jpeg, png.

For optimal display, the image dimensions must be 800 x 480.

8.14 Phone screensaver

You can change your phone screensaver to a default or a personal screensaver. The default screensaver uses predefined images. The personal screensaver uses images you have stored in your phone memory and set up in a screensaver pool.

- Settings
- Application > Screensaver
- Screensaver: Yes I No
- Enable or disable the feature. Screensaver type
- Select the screensaver type:
 - Default screensaver
- Personal screensaver.

You can set the screensaver timeout, the backlight timeout, the brightness when the backlight is on or off and the refresh images interval.



Add an image for your personal screensaver The images have to be stored in the phone memory. Supported image formats are: bmp, jpeg, png.

For optimal display, the image dimensions must be 800 x 480.

- My files
- Picture
- Select the image.

Screensaver

The image is added to your personal screensaver pool.

Remove an image from your personal screensaver pool

- . B My files
 - Picture
- Select the image.
 - Remove from SsPool

The image is removed from your personal screensaver pool.

8.15 Customize the user picture

You can change the picture displayed in your personal information area in the top left corner of the screen. The image must be stored in the set or on a USB storage device.

If the image is on the USB storage device, you must connect it to the phone:

- Insert your USB device at the back of the phone.
- The icon is displayed (connectivity information zone).

- Change the avatar: . B My files

Picture

The list of available pictures is displayed.

- Filters
-) Display the files for the selected storage device.
- Select the image.
 - My picture
 - >> The picture is updated.

Supported image formats are: bmp, jpeg, png.
The recommended size for the avatar is 100x100 pixels

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8.16 Change the theme (skin) of your phone

- Settings
- Device > Phone configuration
- Select the current theme in the configuration page.
-)) The available theme list is displayed on the screen
- Select the desired new theme from the list



Confirm the selection.

Changing the theme may take a few seconds.

8.17 Broadcast the entire display of the phone

To broadcast the entire display of the phone or stop the broadcast, you have to activate or deactivate this feature:

- Settings
- Device > Display > Clone display to HDMI
- Activate or deactivate the HDMI output
- Back to homepage.



8.18 Media switch via QR code

If your OpenTouch Conversation client for mobile offers the media switch feature, you can modify your current call routing profile with any internal deskphone which is prepared with QR code. You are able to take control of the deskphone in order to take benefit of the communication conveniences provided by this phone. communication conveniences provided by this phone.

Your phone can generate its own QR code to be scanned with a compatible OpenTouch Client.

- Use one of the following:
 - Select the feature
 - o Press your information area in the top left corner of the screen.
- User Information
- QR Code

The QR code is displayed on the screen. Touch the screen outside the QR Code to close it.

If the phone is in a meeting room for example, you can use the QR code preview to display permanently the QR Code of the phone in the homepage, in business mode. Like this, the QR code is easy to use.



To display the QR code in the homepage:

- Settings > Application > Homepage
- QR Code preview) if enabled, the QR code of the phone is displayed in the homepage in business mode.
- Back to homepage

8.19 Reset user data

Using the reset feature will erase

- The audio files or photos that you have stored on your phone,
- your programmable keys,
- your contacts,
- your communications log,
- your programmed alarms,
- your own settings (made via the 'Application' or the 'Device' menus),
- the user's customization (user's or background picture, screensaver, melody, skin),
- your installed web applications.

Before starting the reset procedure make sure this action is needed as most of your data and phone customizations will be erased.

- Settings
- Device > Reset
- Enable the feature: YES
- Enter the password.

The reset starts as soon as you have entered the password.



9 ContactSync

9.1 Introduction

This application is for synchronizing your address book between your phone and the Outlook application. It supports synchronization of the Outlook data placed locally, for example in a local Outlook archive file. The default maximum number of contacts you can synchronize between your phone and your PC is 500. However, your administrator can increase this to up to 1,000. Please ask your administrator for the maximum number of contacts.

Once you have run the initial synchronization, if you delete a contact from the phone contacts list, the contact will be deleted from Outlook during the next synchronization (and vice versa). You are advised to create an Outlook subfolder dedicated to your phone contacts and to work from this folder. This will help protect your general Outlook contacts on your PC.

9.2 Prerequisites

The supported operating systems are:

- Microsoft Windows 7 SP1 (32 bits and 64 bits).
- Microsoft Windows 8 (32 bits and 64 bits).
- By default, the password is your OpenTouch password.

The Outlook supported versions are:

Microsoft Outlook 2003, Microsoft Outlook 2007, Microsoft Outlook 2010, Microsoft Outlook 2013 (32 bits

The minimal system requirements are:

- Processor: P4 Class or higher
- RAM memory: at least 256 Mo.
- Minimum available disk space: 100 Mo.
- Screen: 800x600 True Color.
- Network card is required.

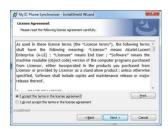
9.3 Installing the application on your PC The application comes as an executable installation file (.exe).

- Run the application executable file.
- Select the language: this defines the installation and the application language.





3. Read and agree the license Agreement.



Select the application destination folder on your PC (make sure you have the necessary administration rights to install the application in the selected folder).



5. Follow the installation steps.



9.4 Uninstalling the applicationThere are two different ways for uninstalling the application:

- Uninstall the application via the Windows settings.
- Run the installation executable file and select the 'Remove' option.



9.5 Repairing the application

If the application becomes corrupted, you can repair it.

- Run the application installation executable file.
- Select the 'Repair' option.
- Follow information displayed on the screen.

9.6 Configuration

Configuring the application on the PC.

The application is ready to work but it is recommended to check the application default configuration.

1.

Open the application configuration: in the task bar of your PC, select the 'Settings' menu of the synchronization menu.





2. You can define:

The profile and the Outlook folder to use for synchronizing contacts.

The default profile and Outlook folder will be used for

synchronizing unless you specify a folder and profile. You can change the profile and folder used. You can define a profile for synchronizing the contacts. You are advised to create an Outlook subfolder dedicated to your phone contacts and to work from this folder. This will help protect your general Outlook contacts on your

The conflict policy (determines how the application should behave when different changes have been made on the phone and the PC)
The most recent modification replaces the oldest, In some circumstances, if you are synchronizing with a profile connected to an Exchange server you may face a situation when a conflict is resolved incorrectly with the 'last modified' Y policy. Make sure that any profile modifications made have been submitted to the Exchange server before synchronizing
The phone data always replace the ones on the PC, The PC data always replace the ones on the Phone, The modified data on the phone are copied on the PC and modified data on the PC are copied on the phone (the data are duplicated),

(the data are duplicated) No synchronisation is done

The silent sync: you can choose to display or not the synchronization progress bar and the synchronization summary.

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The port used by PC for synchronization: if default port cannot be used on the PC you can change it. If you modify the port used by the application, you have to do the same modification on the phone side. Secured connection: while communicating between Contact-Sync and the device, both unsecured HTTP or secured HTTPS protocols can be used. If you checked the 'Use secured connection' checkbox, HTTPS protocol is enabled. However, to manage this checkbox you should make sure the same secured protocol is set up in the device. Please contact your system administrator to find out which protocol is used in your

URL for downloading the application updates.



Startup: if enabled, the application will be run when Windows starts

Besides Settings item, there are a few item that allow you to display the last synchronization summary, to create or delete a pairing between your phone and your PC, to open the application online help, to display information on the application version or to exit the application.

Configuring the phone

- Settings
- Application > Synchronization PC address
- Enter the IP address or the complete network name on which the synchronization application is installed.
- This data defines the port used on the PC for synchronization. The port must be the same as the one Warning when exceed

 Choose if you wish to be informed when a maximum number of items for synchronization is reached (the default setting is 500 items but this may have been changed by the administrator - ask your
- If you see this warning during synchronization you may lose some of your items because they have not been synchronized.
- administrator for the maximum number of contacts).
 - Choose to display the synchronization button in the applications bar of your My IC Phone.
- Back to homepage.

If you try to start the synchronization before configuring it, you will access the Synchronization settings.



9.7 Synchronize your phone and your PC
Before starting synchronization please make sure both the phone and PC software are properly configured.

Start synchronization

- Use one of the following:
 - - Synchronization (If enabled in the synchronization settings)
 - Settings > Application > Synchronization
- Synchronization: Start

If not deactivated in the application configuration (Silent Sync) you can see the synchronization summary on the screen.

During the synchronization, you can at anytime:

See synchronization progress

Display details of synchronized items

Cancel the synchronisation.

The synchronization summary lists all the synchronized items.

From the application menu on the PC (Task bar), you can see at anytime the summary from the last synchronization.

Pairing your phone and your PC

When you run the synchronization for the first time, you must pair your phone and your PC.

1. Accept the certificate required by the phone (ensure that the certificate comes from the target

- PC),.
- A pairing PIN code (PIN) is displayed on the phone screen.
- 3. The phone is detected by the PC and you are prompted to enter this PIN code and a name for the pairing. You have 30 seconds to enter the PIN code. If you don't do so you will have to start the procedure again.
- 4. The synchronization is automatically started when the pairing is established. This pairing has to be done only for the first synchronization.

From the PC application menu, you can delete this pairing.

Synchronization

During the synchronization, you can monitor progress and view the summary once the process is completed. Make sure this option ('Silent Sync') is configured correctly in the Synchronization settings on the PC side. You can also see which items are modified and where by clicking on the detailed view button.

Synchronization takes about 15 seconds for 500 contacts. You can receive and make calls during

synchronization but this can make the synchronization process longer.

The synchronization function is most commonly used to synchronize your PC Outlook contacts with your phone contacts list.

Once you have run the initial synchronization, if you delete a contact from the phone contacts list, the contact will be deleted from Outlook during the next synchronization (and vice versa). You are advised to create an Outlook subfolder dedicated to your phone contacts and to work from this folder. This will help protect your general Outlook contacts on your PC.



9.8 Troubleshooting

Below is a troubleshooting guide that can help you resolve any problems that might occur.

Installation says you do not have write permissions in this folder	You are probably not permitted to change the folder in which you are trying to install PC Sync. Try installing it in another location.
Phone displays 'HTTP error, HTTP request failed'	Please make sure PC Sync is started in the PC. Please check if the same port is set on the phone and on the PC Please check you correctly entered PC address. Please check your firewall settings. The port may be closed by the firewall. Try to change the port.
PC Sync displays 'Unable to listen to the port'	Please make sure no other applications are using this port. Please make sure the firewall allows listening to this port. Try to change the port.
PC Sync displays 'Selected folder has been deleted' or 'Cannot open Outlook profile'	The profile or the folder that Contact-Sync is configured to synchronize with has been deleted. Select another profile or folder in settings.
PC Sync displays 'Outlook is not installed'	Contact-Sync could not find a supported version of Outlook on the PC. Install Outlook.
PC Sync displays 'Error communicating with Outlook'	Contact-Sync could not communicate with Outlook. This might be because Outlook has been installed but not yet set up properly or is maifunctioning. Starting Outlook itself may provide information on what is wrong.
Contact-Sync displays 'Synchronization has failed. An error during data exchange with computer has occured'	Please make sure PC Sync is started in the PC. Please restart Contact-Sync. Please check if Contact-Sync has run when Windows has started (enable the startup option in configuration of the application).
Nothing happens when I press the Synchronization button on the phone (no Synchronization dialog appears in Contact-Sync). An error message appears stating 'Synchronization has failed'.	Most likely there is a mismatch in protocols: the phone uses HTTPS and Contact-Sync uses HTTP or vice versa. Try to check or uncheck the 'Use secured connection' Y checkbox and restart synchronization. Ask your system administrator which protocol your phone uses.



10 Guarantee and clauses

Safety Instructions

- y Instructions

 Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

 Magnets could affect the functioning of pacemakers and implanted heart defibrillators. Keep a safe distance between your pacemaker or implant defibrillator and the handset which includes magnetic elements: 4 centimeters (1,6 inches) at least.

 To limit the risk of interference, people with pacemakers must keep the wireless telephone away from their equipment (minimum distance of 15 cm/6 inches).

 It is recommended to follow the standard acceptance procedures before using this equipment in human safety critical areas (hospitals...).

- The handset includes magnetic elements that may attract sharp metallic objects. To prevent injury, before each use ensure sharp metallic objects are not stuck to the earpiece and
- There is a danger of explosion if the battery is replaced incorrectly use only the battery with the reference 3GV28041AB (1.2V 1500 mAh) (Bluetooth® Handset only). Battery charge (Bluetooth® Handset only): Charge the battery for about 6 hours before initial use.
- Avoid using phones (other than cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

 Do not use the device in environments where there is a danger of explosion.
- Do not plug this phone into an Integrated Services Digital Network (ISDN) connection or into a regular Public Switched Telephone Network (PSTN) connection. This can result in severe damage to the phone.
- Never allow your telephone to come into contact with water
- Never allow your telephone to come into contact with water.

 To clean your telephone, use a soft damp cloth. Never use solvents (trichlorethylene, acetone, etc.) which may damage the plastic parts of your telephone. Do not use aerosol cleaners.

 This product is intended to be supplied, either via the Ethernet (LAN) port (Minimum Class 3 according to IEEE802.3af), or via the DC-in by a Certified Direct Plug-In Power Unit approved as "LPS" (Limited Power Source) against CSA/UL/IEC 60950-1 and rated 48V dc, minimum 0.27A. Allowed power supplies: WA-13B48R Asian Power Devices Inc. ref: 1AF18540AAAA.

 This product also offers a Bluetooth® Radio Interface for the Bluetooth® handset or other Bluetooth® devices, frequency range 2402-2480 MHz, Radiated Power 1mW.

 If you are connected to a POE connection do not use an external Power Supply.

 The cover of the phone screen is made of class. This glass could break if the phone is dropped

- The cover of the phone screen is made of glass. This glass could break if the phone is dropped or it receives a significant blow. If the glass chips or cracks, stop using the phone and do not touch the broken glass as this could cause injury to you. Glass cracked due to misuse or abuse is not covered under the warranty.

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Regulatory Statements

EUROPE

This equipment is in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU and with Directive 2011/65/UE (ROHS).

The Declaration of Conformity may be obtained from:

ALE International 32 avenue Kléber - 92700 Colombes, France

ebg_global_supportcenter@al-enterprise.com

This device complies with Part 15 of the FCC Rules and with RSS210 of Industry Canada. Operation is This device complies with Part 15 of the FCC Rules and with RSS210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules and ICES003 of Canada. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correcting the interference by consulting the dealer.

Exposure to Radio Frequency Signals.

This device has been designed and manufactured not to exceed the SAR (Specific Absorption Rate) radio frequency power transmission limits established by the different countries concerned. The SAR value for the Bluetooth® handset is 0.09 W/kg (the globally accepted maximum limit being 1.6 W/kg).

User Instructions

Only use the handset in temperatures between 5°C to +45°C (23°F to 113°F).

Only use the handset in temperatures between 5°C to +45°C (23°F to 113°F).

This apparatus is Hearing Aid Compatible (HAC).

Acoustic shock protection

The acoustic level of the signal generated by the handset earpiece is less than 130 dBspl for a transient signal (123 dBspl for Australia) and less than 118 dBspl (rms) for a continuous signal (120 dBA for

Australia). Directive 2003/10/EC specifying the risks inherent in noise at work

The ring contributes towards overall daily noise.

This device can be used for indoor operation in all the countries.

Privacy
Privacy of communications may not be ensured when using the Bluetooth® handset or any additionnal

Bluetooth® device.

Disposal

The equipment must be returned to a collection point for electronic equipment waste disposal.

Defective batteries must be returned to a collection point for chemical waste disposal.

Related Documentation

Other languages for these Safety and Regulatory Instructions and User Documentation are available at the following Web site http://enterprise.alcatel-lucent.com?product=All&page=Directory.

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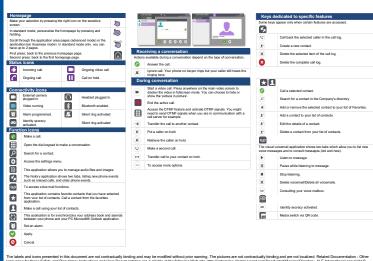
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		Nb of pages: 47	Date: 21 July 2015					
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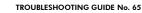
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DeskPhone

INTRODUCTION

The aim of this document is to help trouble shoot issue involving a Mv IC Phone in an OXE Hotel. OmniPCX Entreprise or Open Touch environnement.

HISTORY

Edition 02	21 July 2015	Some minor modifications (sections 3.3.4 and 3.3.7.6) This TG also applies to the 8088 Smart DeskPhone.
Edition 01	2 August	This edition contains the available embedded commands and logs within the My IC Phone

EMBEDDED COMMANDS AND LOGS

3.1 SSH Command Line Interface connection

It is possible to access to embedded commands using a SSH client (like <u>putty</u> for example). The login is **admin** and the password is the one defined in the phone configuration file **config.00809fa0076a.xml** (where 00809fa0076a is the phone MAC address). This parameter is set through the 8770 and the config.00809fa0076a.xml file is sent by the 8770. For example: <setting id="DmAdminPasswd" value="0000" override="true"/>

```
Once logged in, the phone prompt is displayed and embedded commands can be used: login as: admin admin@172.25.34.7's password:
Last login: Thu Dec 16 14:35:19 2010 from 155.132.130.216
BusyBox v1.11.1 (2010-11-09 17:45:26 CET) built-in shell (ash) Enter 'help' for a list of built-in commands.
```

For a phone "out of the box" which has never received a configuration file with a new password, the default password is *tx8000#

3.2 File transfer SFTP connection

It is possible to transfer files from and to the phones using a SFTP client (like $\underline{\text{FileZillo}}$ for example). This is usefull to download from the phone traces and logs. The login and password are the same as for the SSH Command Line Interface connection.

3.3 Embedded commands 3.3.1 Phone internal configuration files

The phone inter		onfiguration	files can	be re	ead in	the /	onfig	/ fol	der:	
\$ cd /config \$ ls -1	3									
drwxrwxrwx	2	root	root			232	Sep	16	12:00	bt
lrwxrwxrwx	1	root	root			16	Sep	16	11:58	current ->
/var/run/cus	rent	t.								
drwxr-xr-x	2	root	root			232	Sep	24	10:15	dhcp
drwxr-xr-x	2	root	root			880	Dec	17	14:07	dm
drwxr-xr-x	2	root	root			232	Sep	16	20:19	etc
lrwxrwxrwx	1	root	root			21	Sep	16	11:58	fab -> /config-
fab/fabconf:	Ĺg									
lrwxrwxrwx	1	root	root			13	Sep	16	20:19	11dp ->
/var/run/llo	ip						-			_
drwxr-xr-x	2	root	root			440	Dec	17	14:09	local
drwxrwxr-x	3	applicat	501			224	Sep	16	15:31	restore
drwxrwxr-x	2	applicat	501			232	Nov	22	14:44	u-boot
drwxr-xr-x	2	applicat	501			520	Dec	16	17:05	upgrade
drwxr-xr-x	2	root	root			160	Sep	16	20:19	voip
T1	1 6 1		r.		C+I	-			1 6.0	

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There are several folders. Several configuration files are located in each of them.

Warning: these files have not to be modified. They are generated automatically (from DHCP server information, local configuration application, device manager, ...).

All these information are gathered and the global phone configuration is generated.

3.3.1.1 Bluetooth (/config/bt)

This folder contains the Bluetooth configuration:

ictbtmgr.conf: phone bluetooth and bluetooth handset configuration

3.3.1.2 Current used configuration (/config/current)

This folder contains the currently used configuration:

- admin.cfg: some global configuration parameters
- enet.cfg: various network parameters
- enet.rg: various network parameters
 ethlink.rg: ethernet interfaces (LAN and PC port) configurations
 lldp.rg: LLDP configuration and information
 security.rg: certificate, deny of service and ARP attacks protections configurations
 wpa8021x.rg: 802.1x configuration

3.3.1.3 DHCP (/config/dhcp)

This folder contains the information received from the DHCP server:

· enetbackup.cfg: IP parameters and DM server information received from the DHCP server

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3.3.1.4 Device Manager configuration files (/config/dm)

This folder contains the configuration files received from the device manager and the generated phone configuration:

- config.00809fa0076a.xml: configuration file received from the device manager (8770)
 configuration-file-received-from-the-device-manager (8770)
- mycusto.xml: configuration file (hotel customization) received from the device manager
- admin.cfg: administration configuration generated from the received configuration files
- enet.cfg: network configuration generated from the received configuration files
 security.cfg: security configuration generated from the received configuration files
- wpa8021x.cfg: 802.1x configuration generated from the received configuration file

3.3.1.5 Manufacturing information (/config/fab)

3.3.1.6 Ildp information (/config/Ildp) 3.3.1.7 Local configuration (/config/local)

This folder contains the configuration entered by the administrator with the phone local settings application (settings key press during phone initialization):

- admin.cfg: some global configurtion (timezone for example)
- enet.cfg: network configuration secdat
- wpa8021x.cfg: 802.1x configuration

3.3.1.8 Binary upgrade information (/config/upgrade)

This folder contains various information about the phone binary updates:

- profile.xml: latest downloaded profile.xml file (containing the index.xml file listing the rpm to
- profile.xml.sum: md5 checksum of the latest downloaded profile.xml file
- status: download current status
- upgrade_report: latest upgrade report upgrade_report.1: next to last upgrade report

3.3.2 Remaining disk space

This is usefull when logging with high debug levels and making network captures to check how

much logs can be taken.
Following Linux command can be used to check remaining space:

\$ df -h					
Filesystem	Size	Used	Available	Use%	Mounted on
rootfs	273.5M	157.1M	116.4M	57%	/
ubi0:SYSTEM	273.5M	157.1M	116.4M	57%	/
tmpfs	113.0M	952.0k	112.0M	1%	/var/tmp
none	113.0M	28.0k	112.9M	0%	/dev
none	113 OM	Ω	113 OM	0.8	/dev/ehm

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tmpfs		10.0M	192.0k	9.8M	2%	/var/log
tmpfs		113.0M	952.0k	112.0M	1%	/var/tmp
tmpfs		113.0M	68.0k	112.9M	0%	/var/run
ubi0:CONF	IG	14.0M	10.1M	3.9M	72%	/config
ubi0:FAB-	DATA	688.0k	64.0k	624.0k	98	/config-fab
ubi0:DATA		116.6M	456.0k	116.1M	0%	/data

```
For information, the following table shows where usually used folders point to:

lrwxrwxrwx 1 root root 9 Sep 16 11:58 log -> /data/log
lrwxrwxrwx 1 root root 8 Sep 22 14:05 tmp -> /var/tmp
```

Note: use Is -I to see this kind of information.

See also how to delete the phone log files.

3.3.3 Network trace (tcpdump)

Since the phone runs on a linux plateform, tcpdump tool is available to record the network traffic. A lot of native tcpdump options can be used. See <u>online help</u> for more information.

```
A lot of native todump options can be used, see Comme Team for indications.

Type tcpdump --help for the inline help:

$ tcpdump version 3.9.5

tipbcap version 0.9.8

Usage: tcpdump [-aAdDeflLnNOpqRStuUvxX] [-c count] [-C file_size]

[-E algo:secret] [-F file] [-i interface] [-M
                                                [ -r file ] [ -s snaplen ] [ -T type ] [ -w file ] [ -W filecount ] [ -y datalinktype ] [ -Z user ]
                                                [ expression ]
```

3.3.3.1 Examples 3.3.3.1.1 Record all the trafic to a file

```
$ tcpdump -s 0 -w /tmp/trace.pcap
```

- . This is usefull when the amount of data to record is quite small (for example a call setup and
- communication of a few seconds).
 Use **<Ctrl><C>** to stop the trace.
- The file (/tmp/trace.pcap) can then be dowloaded from the phone using the File transfer SFTP connection.

 Warning: take care to not saturate the phone with a too big file (see how to check the
- remaining disk space)

3.3.3.1.2 Record all the trafic to several files

```
$ tcpdump -s 0 -C 3 -W 1 -w /tmp/trace.pcap
```

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- This is usefull to record trafic when trying to catch a random issue. In order not to saturate the phone, several recording files will be used. The file size is fixed and their number is limited. Once all the files are created, the oldest one is overwritten.

 Use Ctrl Ctr to stop the trace.
- The files (/tmp/trace.pcapX) can then be dowloaded from the phone using the File transfer
- SFTP connection.

 Warning: take care to not saturate the phone with too big files (see how to check the remaining disk space).

3.3.3.1.3 Record all the trafic to a file in background

\$ tcpdump -s 0 -C 3 -W 1 -w /tmp/trace.pcap &

- This is usefull to record trafic and meanwhile do other debug operation in the phone. The trace is recorded in background.
- After having enter the above command, use **<RETURN>** to be able to do the other operations.

 Use **killall tcpdump** to stop the trace.
- The file (/tmp/trace.pcap) can then be dowloaded from the phone using the File transfer SFTP connection.
- Warning: take care to not saturate the phone with a too big file (see Remaining disk space).

3.3.4 Initialization logs

The logs of the last phone initialization are saved in /log/log.rcS

cat /log/log.rc5 allows to watch them inline.

The file can also be retrieved using the SFTP connection (see File transfer SFTP connection)

Previous initialization is saved in /log/log.rc5.1

3.3.5 Internal logs

Internal logs can be activated for several phone application and functions. The logs can be stored on the phone itself (in a file) or sent to a syslog server. Log levels can be configured.

3.3.5.1 Default configuration

by actaon, an me logs level are set to e	mon (minimina id	aria siorca iii ii	ne priorie (in mes).
\$ level			
ACTIVITE	LEVEL	SUPPORT	DESTINATION
IctProgrammableKeys	err	file	
/ / 1 / T -+ D	1		

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Comlog	err	file
/var/log/Comlog.log		
IctWebClient	err	file
/var/log/IctWebClient.log		
IctFileManager	err	file
/var/log/IctFileManager.log		
ICTSaveRestore	err	file
/var/log/ICTSaveRestore.log		
IctDirectory	err	file
/var/log/IctDirectory.log		513
LoggerModule	err	file
/var/log/LoggerModule.log	err	file
Telephony /var/log/Telephony.log	err	1116
IctMail	err	file
/var/log/IctMail.log	CII	1110
IctUser	err	file
/var/log/IctUser.log		1110
IctIM	err	file
/var/log/IctIM.log		
MediaPlayer	err	file
/var/log/MediaPlayer.log		
WSManager	err	file
/var/log/WSManager.log		
ICTGate	err	file
/var/log/ICTGate.log		
Monitoring	err	file
/var/log/Monitoring.log		611.
ictaudio	err	file
/var/log/ictaudio.log ictbtmgr	err	file
/var/log/ictbtmgr.log	err	1116
ictsipua	err	file
/var/log/ictsipua.log		1110
GreenManager	err	file
/var/log/GreenManager.log		
Platform	err	file
/var/log/Platform.log		
IctAudioMediator	err	file
/var/log/IctAudioMediator.log		
IctMPInterface	err	file
/var/log/IctMPInterface.log		
Scheduler	err	file
/var/log/Scheduler.log		513
SettingsManager	err	file
/var/log/SettingsManager.log	err	file
ictfwupmgr /var/log/ictfwupmgr.log	CII	1116
Agenda	err	file
/var/log/Agenda.log	0.11	
ICTCliGateLite	err	file
/var/log/ICTCliGateLite.log	_	
ApplicationManager	err	file
/var/log/ApplicationManager.log		

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```
ictgate_module_crash.jpg err
/var/log/ictgate_module_crash.jpg.log
ictwebclient_module_crash.jpg err
/var/log/ictwebclient_module_crash.jpg.log
WebApp
/var/log/WebApp.log
                                                                                    file
                                                                                    file
no facility
                                                              err
/var/log/no_facility.log
```

3.3.5.2 Send one stream to the ssh client

- \$ level ictsipua debug \$ redirect ictsipua usertty admin This is usefull to see "live" one debug stream. In this example, the SIP logs are set to debug level and redirected to the current console (ssh since we are connected through ssh)

3.3.5.3 Store one stream to a file

- \$ level ictsipua debug
 \$ redirect ictsipua file /var/log/ictsipua.log
 This is usefull to record one debug stream in a file and retrieve this file for offline analysis.
 - In this example, the SIP logs are set to debug level and redirected to the /var/log/ictsipua.log
 - It is adviced to use the default file names and locations (see Default configuration).
 - The file (/var/log/idsipua.log) can then be dowloaded from the phone using the File transfer SFTP connection.
 - Warning: take care to not saturate the phone with a too big file (see Remaining disk space).

3.3.5.4 Delete the log files stored in the phone

\$ deletelogs

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• This is usefull to delete the log files (content of the /var/logs/ folder).

3.3.5.5 Redirect one stream to a syslog server

- \$ level ictsipua debug \$ redirect ictsipua udp 155.132.130.216 514
 - This is usefull to track random issues. Syslog server is setup and collects and saves the logs for one or several phones. Thus, this configuration can run for several days. For example, Kiwi syslog deamon can be used.
 - In this example, the SIP logs are set to debug level and redirected to syslog server hosted on a server with IP address 155.132.130.216. Default syslog UDP port 514 is used.

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netlog command can also be used. For example:

```
$ level ictsipua debug
$ netlog ictsipua udp 155.132.130.159 514
        will redirect the SIP debug messages (with debug level) to 155.132.130.159 IP equipment
       514 UDP port.
```

3.3.5.6 Check current levels and destinations

· For all the activities:

```
$ level
```

· For one activity (ictsipua in this example):

```
$ level | grep ictsipua
ictsipua
                   debug
                           usertty
```

3.3.5.7 Come back to default configuration (see Default configuration)

```
$ level all init
$ redirect all init
```

· For one activity (ictsipua in this example):

```
$ level ictsipua init
$ redirect ictsipua init
```

3.3.5.8 More information

Use following commands to get inline help:

```
$ level --help
$ redirect --help
```

3.3.6 Binary upgrade 3.3.6.1 dwl

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```
.. [versi
.. [help]
Arguments:
```



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```
- upgrade <on|off>: enable/disbale the upgrade process
- seturl <force_upgrade_url>: force upgrade using this url
- check: compare insataleld RPMs with the one available on the server
- config: list all settings used
- version: display the current tool's version
- help: display this menu
```

3.3.6.1.1 Check the binary upgrade configuration like polling, file and server IP address

```
$ dwl config
Upgrade settings used:
upgrade status: on
upgrade file: /vhe/customfiles/mycusto/profile.xml
upgrade polling status: true
upgrade polling timeout: 3600
main server used: 172.25.35.230
dwl OK
```

3.3.6.1.2 Enable and disable the upgrade

```
$ dwl upgrade on
$ dwl upgrade off
```

3.3.6.1.3 Launch an upgrade (with a specific URL where to download the binary)

\$ dwl seturl http://172.25.35.230/vhe/customfiles/mycusto/profile.xml

3.3.6.1.4 Check the list of RPM available on the server and compare it to the ones embedded in the phone

```
$ dwl check
```

3.3.6.1.5 Upgrade one phone to a specific test binary

This command is usefull to upgrade one phone to a specific test binary (different from the binaries available on the device manager).
The test binary can be located on a laptop embedding an http server.

Example:

```
$ dwl upgrade off
$ dwl seturl
http://myLaptopIpAddress/myTestBinaryFolder/myTestBinaryProxile.xml
```

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The phone will now upgrade to the test binary and also disable the upgrade mechanism. So it will not download the binary located on the device manager (official binary) after next

Warning: do not forget to activate again the upgrade mechanism (**dwl upgrade on**) and reset the phone (**reset**) to switch again to the official binary once the test is finished.

3.3.7 Incidents

This command is usefull to check the phone incidents like reset causes. These messages are stored in log files saved in flash memory (can be accessed even after a phone reset).

```
$ defence --help
  \ensuremath{\mathsf{OBJECT}} : defence command is made to access to the defence flash
            sector in read or delete access mode
   | defence with one parameter
 ==> COMMAND :defence --help
  Print the help on the terminal
 ==> COMMAND :defence delete
```

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```
Delete both defence.* and Defence.* log files in /log flash sector
  ==> COMMAND :defence size
   Return the number of log messages in /log/Defence.log file
        defence with two parameters
   COMMAND :defence <number> <access type>
   <number>: number of lignes to read or delete from the end of
             the defence log file
   <access type> :
   - command read : print the last <number> lines from the defence log
| - command delete : delete the last <number> lines from the defence log file |
| defence 100 read --> print the last 100 lignes from 
/log/defence.log file | defence 100 delete --> delete the last 100 lignes from 
/log/defence.log file |
                      ----- End of Help -----
```

3.3.7.2 Number of logged incidents

\$ defence size Ed. 02 / 21 July 2015 13/47 TG0065 Alcatel-Lucent 1

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[DEFENCE] Total messages saved in flash sector:831

3.3.7.3 Read the last incidents

This command allows to read the last x incidents

Example (read last 10 incidents):

\$ defence 10 read

3.3.7.4 Delete the last incidents

This command allows to delete the last x incidents.

Example (delete last 10 incidents):

\$ defence 10 delete

3.3.7.5 Delete all the incidents

This command allows to delete all the logged incidents.

\$ defence delete

3.3.7.6 Log files

The incidents are stored in files which are located in flash memory Once current file is full (100kb file size), it the saved and emptied.

There are thre files:

/log/Defence.log: this is the current log file. A new incident will be stored in this file,
 /log/Defence.log.1.gz: this is the previous log file,
 /log/Defence.log.2.gz: this is the oldest log file.

3.3.7.7 Check the reset causes

The reset causes are logged in the /log/Reset.log file. To read them online:

\$ more /log/Reset.log

3.3.8 Reset management 3.3.8.1 Software reset

This command allows to do a software reset with limited network cut time

\$ reset

or

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\$ reset soft

3.3.8.2 Hardware reset

This command allows to do a hardware reset. Network cut time is bigger than for the

\$ reset hard

3.3.8.3 Back to "out of the box" configuration

This command allows to come back to an "out of the box" configuration (as after phone

manufacturing).
All the configuration is erased and put back to the default values.

Note that the phone software is not changed (not put back to the manufactured one).

\$ reset flash

3.3.9 Audio management and information3.3.9.1 Active channels (audio)3.3.9.1.1 Check active channels

This command is useful to check if there is an ongoing communication. Phone can manage several audio channels but only one is used at a time (channel 0).

 In above example, no audio channels are active. Phone is in idle state (no ongoing) communications):

\$ audio #audio# state idle no channel active audio OK

Hereafter, an example when a communication is ongoing:

\$ audio #audio# state active 1 channels active: channel 0 audio OK

1 channel is active (channel 0).

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3.3.9.2 Active communication IP parameters (rtp) 3.3.9.2.1 Check all ip parmaters of active communication

This command is useful to check the ongoing communication IP parameters (local and remote IP address and port, encryption).

As written before, the phone can manage several audio communications but only one is used at a time (channel 0)

```
$ rtp 0
#rtp#
#rtp#
state active
direction rxtx
locip 172.25.34.7
locport 6000
remip 172.25.34.69
remport 32002
encryption no
rtp OK
```

In above example, we can see:

- state active: a communication is ongoing,

- state active: a communication is ongoing,
 direction rxtx: the communication was setup with bidirectionnal audio,
 locip 172.25.34.7: the phone uses 172.25.34.7 as IP addresse for the RTP exchanges,
 locport 6000: the phone uses 6000 as UDP port for the RTP exchanges,
 remip 172.25.34.69: the remote side IP equipment uses 172.25.34.69 as IP addresse for the RTP exchanges,
 remport 32002: the remote side IP equipment uses 32002 as UDP port for the RTP
- exchanges,
 encryption no: there is no encryption for this communication.
- 3.3.9.2.2 All ip parmaters when there is no active communication

In case there is no ongoing communication, the command returns previous active communication information. Only **state** parameters changes (from **active** to **idle**).

```
$ rtp 0 #rtp#
#rtp#
state idle
direction rxtx
locip 172.25.34.7
locport 6000
remip 172.25.34.69
remport 32002
encryption no
rtp OK
```

3.3.9.2.3 Check specific ip parmaters of active communication

It is possible to check each parameter. Example (check if there is an ongoing communication):

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```
$ rtp 0 state
#rtp#
idle
rtp OK
        Hereafter, the parameter list: state, direction, locip, locport, remip, remport, encryption.
```

3.3.9.3 Active communication audio codec (codec) 3.3.9.3.1 Check the audio codec information for active communication

This command is useful to check the ongoing communication audio codec used. As written before, the phone can manage several audio communications but only one is used at a time (channel 0)

```
$ codec 0
#codec#
#codec#
compress G711_A64k
vad off
band narrow
framing 20 ms
pktprd 20 ms
codec OK
```

- : OK
 In above example, we can see:
 compress G711_A64k: G711 Alaw 64 kbits/s compressor is used,
 vad off: voice activity detection is not activated,
 band narrow: narrow band audio is used,
 framing 20 ms: phone DSP framing is 20ms,
 pktprd 20 ms: each RTP packet contains 20ms of audio.

3.3.9.3.2 Audio codec in case there is no active communication

In case there is no ongoing communication, the command returns an error code (codec KO) stating there is no audio communication ongoing (no active stream):

```
$ codec 0
#codec#
no active stream
codec KO
```

3.3.9.3.3 Check the audio codec specific information for active communication

It is possible to check each parameter. Example (check the current used compressor):

```
$ codec 0 compress
G711_A64k
```

Hereafter, the parameter list: compress, vad, band, framing, pktprd.



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3.3.9.4 Device states (device) 3.3.9.4.1 Check the handset state (device handset)

This command is useful to check if there is an active communication with the **handset** activated and the used audio level.

```
$ device handset
#device#
direction rxtx
flux 0
level 0 dB
device OK
```

In above example, we can see:

- direction rxtx: the communication was setup with bidirectionnal audio,
 flux 0: channel 0 is used (as written before, the phone can manage several audio
 communications but only one is used at a time: channel 0),
- level 0 dB: audio level is 0 dB.

In case there is no active communication or communication is with another audio device (handsfree for example), the command returns:

```
$ device handset
#device#
direction off
Flux none
level 0 dB
device 0K
Note that previous communication audio level (level) is returned. But direction off and
```

flux none tell that there is no ongoing communication with the handset.

3.3.9.4.2 Check the handsfree state (device handsfree)

This command is useful to check if there is an active communication with the **handsfree** activated and the used audio level.

```
$ device handsfree
#device#
direction rxtx
flux 0
level -21 dB
device OK
```

- In above example, we can see:
 direction rxtx: the communication was setup with bidirectionnal audio,
- flux 0: channel 0 is used (as written before, the phone can manage several audio communications but only one is used at a time: channel 0),
 level 0 dB: audio level is 0 dB.

In case there is no active communication or communication is with another audio device (handset for example), the command returns:

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```
$ device handsfree
#device#
direction off
flux none
level -21 dB
device OK
```

Note that previous communication audio level (level) is returned. But direction off and flux none tell that there is no ongoing communication with the handsfree

3.3.9.4.3 Check the headset state (device headset)

This command is useful to check if there is an active communication with the **headset** activated and the used audio level.

```
$ device headset
#device#
direction rxtx
flux 0
level -8 dB
device OK
```

- In above example, we can see:

 direction rxtx: the communication was setup with bidirectionnal audio,
- flux 0: channel 0 is used (as written before, the phone can manage several audio communications but only one is used at a time: channel 0),
 • level 0 dB: audio level is 0 dB.

In case there is no active communication or communication is with another audio device (handset for example), the command returns:

```
$ device headset
#device#
direction off
flux none
level -8 dB
device OK
```

Note that previous communication audio level (level) is returned. But direction off and flux none tell that there is no ongoing communication with the headset.

3.3.9.4.4 Check a device specific information (device <device> <parameter>)

It is possible to check each parameter.

Example (check if there is an ongoing communication with the handsfree):

```
$ device handsfree direction
#device#
rxtx
device OK
```

Hereafter, the parameter list: direction, flux, level.

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3.3.9.5 Device states (audiocfg) 3.3.9.5.1 Check all the device configurations (audiocfg)

This command is useful to check the different device configurations.

```
$ audiocfg
#audiocfg#
#audiocfg#
RJ9 Audio Dev Type : Handset
Audio Dev Enabled in : Jack
Jack Audio Dev Type
USB Audio Dev Type : Unknown
BT Audio Dev Type : Unknown
audiocfg OK
```

- In above example, we can see:

 RJ9 Audio Dev Type: Handset: the RJ9 port is configured to plug a handset,

- Audio Dev Enabled in : Jack: an accessory can be plugged in the jack port,
 Jack Audio Dev Type : Headset: the jack port is configured to plug a headset.
 USB Audio Dev Type : Unknown: the USB port is not configured to plug an accessory,
 BT Audio Dev Type : Unknown: the Bluetooth module is not configured to pair an accessory.

3.3.9.6 Vocie mode (vociemode)

3.3.9.6.1 Check the current active device (voicemode)

This command is useful to check which is the active audio device.

```
$ voicemode
#voicemode#
Handsfree <Internal>
      In above example, we can see that the ongoing communication is with the phone internal in
```

handsfree

Several values can be returned:

Idle when there is no ongoing communication,

Handset and the associated used port / module (<RJ9>, <BT>, <BT via USB>),
Headset and the associated used port / module (<RJ9>, <BT>, <BT via USB>),
Handsfree and the associated used port / module (<Internal>, <Jack>, <BT>, <BT

via USB>),
Ring <Internal Loudspeaker> when the phone is ringing,
internal group-listening is added in case the group listening feature is activated (internal
loudspeaker in addition to another device like handset or headset).

3.3.9.6.2 Set the current active device (voicemode set <device>)

This command is useful to change the current active audio device (for example to make a test when the user is not in front of the phone).

\$ voicemode set handsfree

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#voicemode# voicemode OK

Following paramters can be used:

idle, handset,

headset

handsfree

handsfree internal

handsfree external (if there is an external handsfree device configured).

3.3.9.7 Loudspeaker information and management (loudspeaker)

3.3.9.7.1 Check loudspeaker state (loudspeaker)

This command is useful to check if the loudspeaker is activated. This command is used only in case of group listening feature is activated.

\$ loudspeaker #loudspeaker#

on loudspeaker OK

In above example, loudspeaker is not activated (loudspeaker in addition to another device like handset or headset).

In case loudspeaker is not activated (group listening feature not activated), the command

\$ loudspeaker# loudspeaker OK

3.3.9.7.2 Set the loudspeaker state (loudspeaket set <state>)

This command is useful to change the current loudspeaker state (for example to make a test when the user is not in front of the phone). This command is used only in case of group listening feature is activated.

• To activate the loudspeaker (and activate the group listening):

\$ loudspeaker set on internal

To activate the external (if configured) loudspeaker (and activate the group listening):

\$ loudspeaker set on external
#loudspeaker# loudspeaker OK

To deactivate the loudspeaker (and deactivate the group listening):



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```
$ loudspeaker set off
#loudspeaker#
loudspeaker OK
```

3.3.9.8 Mute information (mute)

3.3.9.8.1 Check the mute states (mute)

This command is useful to check if the mute is activated.

```
$ mute
 #mute#
Mute mode is off
Device mute mode is off
DTMF mute mode is off
Bluetooth mute mode is off
mute OK
```

3.3.9.9 Global rtp configuration (media rtp)

This command is useful to check the global rtp parameters which will be used (codec payload duration, dtmf telephonic events payload type, ...).

```
$ media rtp
#media#
   The state of the s
   AMR WB BitRate=2
code=G.711 PCMU
vocoders[0].payload ms=20
vocoders[0].silence_compression_onoff=0
vocoders[0].silence_compression_onoff=0
codec=G.711 PCMA
vocoders[1].payload_ms=20
vocoders[1].silence_compression_onoff=0
codec=G.729 AB
vocoders[2].payload ms=20
vocoders[2].silence_compression_onoff=0
codec=G.722 ADPCM 64k
vocoders[3].silence_compression_onoff=0
vocoders[3].silence_compression_onoff=0
codec=G.722.2 AMPCM WHR
   codec=6.722.2 AMR WB
vccoders[4].payload ms=20
vccoders[4].silence_compression_onoff=0
media OK
```

3.3.9.10 Global ringing configuration (media ring)

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This command is useful to check the global ringing parameters which will be used (level, melody, \ldots).

```
$ media ring
#media#
internal_ring=18
external_ring=18
appointment_ring=18
special_ring=18
silent_ring=0
beep=0
progressive=0
ring_state=0
ringlock=0
media OK
```

3.3.9.11 Global volume configuration (media vol)

This command is useful to check the global volume parameters which will be used (level).

```
$ media vol
#media#
ring_volume=1
loudspeaker_volume=3
earpiece_volume=2
headset_volume=3
media OK
```

3.3.9.11.1 Change global volume configuration (media vol + and media vol -)

It is also possible to change the volume on the fly using media vol + and media vol +.

```
$ media vol
#media#
ring_volume=2
loudspeaker_volume=3
earpiece_volume=2
headset_volume=3
media OK
$ media vol -
#media#
status=1
media OK
$ media vol
#media#
status=1
loudspeaker_volume=1
loudspeaker_volume=2
headset_volume=3
media OK
```

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3.3.9.12 Global dtmf configuration (media dtmf)

This command is useful to check the global dtmf parameters which will be used (rfc, gain, duration, ...).

```
$ media dtmf
#media#
sending_mode=rfc2833
sending_gain=-10dB
feedback activity=1
play duration=follow key
media OK
```

3.3.9.13 Global tone configuration (media tone)

This command is useful to check the global tone parameters which will be used (country, \dots).

```
$ media tone
#media#
country=UK
direction=egress
use custom tone =false
media OK
```

3.3.9.14 Hearing aid configuration (hearingaid)

This command is useful to check the hearing aid configuration (activation).Once activated, the handset gain and frequency response is adapted.

```
$ hearingaid
#hearingaid#
hearing aid filter off
hearingaid OK
```

3.3.9.14.1 Hearing aid activation and deactivation (hearingaid set)

This command is useful to change the hearing aid configuration (activation state).

```
$ hearingaid set on
#hearingaid#
hearingaid OK
$ hearingaid set off
#hearingaid#
hearingaid#
```

3.3.10 IP configuration

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3.3.10.1 Read the IP configuration (ipconfig)

This command allows to check the IP configuration (ip address, subnet mask, router IP address, DHCP mode, vlan number)

```
$ ipconfig
ip 172.25.34.7
mask 255.255.255.0
router 172.25.34.1
mode Static
vlan 134
ipconfig OK
```

3.3.10.2 Change the IP configuration (ipconfig set)

This command allows to chenge the IP configuration (ip address, subnet mask, router IP address, DHCP mode, vlan number)
Reset of the phone is needed to take into account the changes

3.3.10.2.1 Change the IP address (ipconfig set ip)

```
$ ipconfig set ip 172.25.34.123 ipconfig OK
```

3.3.10.2.2 Change the subnet mask (ipconfig set mask)

```
$ ipconfig set mask 255.255.0.0 ipconfig OK
```

3.3.10.2.3 Change the router IP address (ipconfig set router)

```
$ ipconfig set router 172.25.34.254 ipconfig OK
```

3.3.10.2.4 Change the DHCP mode (ipconfig set mode)

```
$ ipconfig Set mode Dynamic ipconfig OK $ ipconfig set mode Static ipconfig OK
```

3.3.10.2.5 Change the vlan number (ipconfig set vlan)

```
$ ipconfig set vlan 123 ipconfig OK
```

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3.3.11 Software and hardware versions information (id)

3.3.11.1 Read the basic software and hardware information (id)

This command allows to read the software and hardware basic information (software version, phone model, hadware version and serial number)

```
$ id
soft R200.01.020.1
type VHE
range SIP
hard 3MG26001AAAA021041
serial TEC104100019
builddate Fri Jan 21 16:37:39 2011
id OK
```

3.3.11.2 Read the extended software and hardware information (id full)

This command allows to read software and hardware extended information (memory size, software components version, \dots)

```
$ id full
soft
type
range
                       R200.01.020.1
                      VHE
                       3MG26001AAAA021041
hard
                      TEC104100019
Fri Jan 21 16:37:39 2011
3IN1 VHE P3TF
BCM11107
serial
builddate
board
cputype
ramsize
                      256MB
flashsize
                      512MB
touchpanel touchscreen_CY8CTMG120
sensekey 613-210041R/R5
boot 1.6
u-boot
upgrade
fab
                     0.1.10

078000_E_7_2_2010-09-24_R15B2_Patch20101004a

2.6.27.18

ALU-ictouch_vhe-wrlinux
LinuxVers
LinuxHost
LinuxMach armv61
_ictouch
Applications_ill
Applications_sha
                                             ICTOUCH_R200_20110107_1411
ICTOUCH_R200_20110107_1042.5879
ICTOUCH_R200_20110106_1227.940
                                             ICTOUCH R200_20110106_1227.940
ICTOUCH R200_20110107 1151.2595
ICTOUCH_R200_20110107_1219.2048
ICTOUCH R200_20110106_1227.5486
ICTOUCH_BTHS R200_01_018_0_REL_VHE_W047.4_1
ICTOUCH_M5T_R200_REL_W050.5_1
Appli_infra
Appli_ptf
Audio
Bths
LayerM5T
```



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3.3.11.3 Read the software plateform information (id sw)

This command allows to read the software plateform information (software global version, boot, \ldots)

3.3.11.4 Read the hardware extended information (id hw)

This command allows to read the hardware extended information (board, CPU, memeory, touchpanel, sensitive keys)

```
$ id hw
board 3IN1 VHE P3TF
cputype BCM11107
ramsize 256MB
flashsize 512MB
touchpanel touchscreen CY8CTMG120
sensekey 613-210041R/R5
id OK
```

3.3.11.5 Read the linux plateform information (id linux)

This command allows to read the linux plateform information

```
$ id linux
LinuxWers 2.6.27.18
LinuxHost ALU-ictouch_vhe-wrlinux
LinuxMach armv61
id OK
```

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3.3.11.6 Read the software components information (id comp)

This command allows to read the software components (audio, sip, ...) version

3.3.11.7 Read the rpm information (id rpm)

This command allows to read the installed rpm version

```
$ id rpm ...
ictaudio-22.1 100.0-R200 01.020.1.1 VHE.armv6jel
telephony-21.2 100.0-R200 01.020.1 VHE.armv6jel
...
id OK
```

3.3.12 Ethernet MAC address (mac)

This command allows to read the ethernet MAC address

```
$ mac
00:80:9f:a0:07:6a
mac OK
```

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3.3.13 DHCP user class information (dhcp userclass)

This command allows to read and configure the DHCP userclass option used by the phone in

its DHCP messages.

This option can be used by a DHCP server to select the appropriate information (IP address, subnet mask, ...) and the appropriate configuration parameters to send to the phone.

```
$ dhcp userclass
userclass use = false
userclass val = ictouch.class0
dhcp OK
```

3.3.13.1 DHCP user class configuration (dhcp userclass use and dhcp userclass val)

This command allows to configure if the phone will embed the option in its DHCP message

```
$ dhcp userclass use true
dhcp OK
$ dhcp userclass use false
dhcp OK
$ dhcp userclass val ictouch.classMarketting dhcp OK
```

3.3.14 Ethernet ports configuration and statistics (phy and ethernetstats)

This command allows to read and configure ethernet ports LAN and PC (speed and duplex).

3.3.14.1 Ethernet ports configuration information (phy)

This command allows to read the ethernet ports LAN and PC (speed and duplex).

```
$ phy
LAN 100/Full
PC 1000/Full
phy OK

The values returned are the currently used ones (which may be different to the configured
```

3.3.14.2 Ethernet ports configuration modification (phy xxx set)

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This command allows to change the ethernet ports LAN and PC configuration (speed and duplex).

```
$ phy lan set auto auto
phy OK

phy OK

phy lan set auto auto
phy OK

phy lan set 100 full
phy OK
```

Allowed speed values are: 10, 100 and auto. Allowed duplex values are: half, full and auto-

Note that the gigabit speed (1000) can not be forced. Autonegociation has to used on both sides to use gigabit configuration.

3.3.14.3 Ethernet ports statistics (ethernetstats)

This command allows to read statistics of the traffic on the ethernet ports (LAN and PC).

3.3.14.3.1 Ethernet LAN port statistics (ethernetstats lan)

This command allows to read statistics of the traffic on the ethernet LAN port.

```
$ ethernetstats lan
speed 1000
duplex full
collisions 0
crcerrors 0
broadcast 779426
ethernetstats OK
```

Ethernet LAN port works in 1000 Mbits full duplex. There were nor collisions, neither CRC errors. 779426 broadcast messages have been received since last reset.

3.3.14.3.2 Ethernet PC port statistics (ethernetstats pc)

This command allows to read statistics of the traffic on the ethernet PC port.

```
$ ethernetstats pc
speed iduplex icollisions 0
              idle
idle
crcerrors 0
broadcast 779736
ethernetstats OK
```

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There is no PC connected. There were nor collisions, neither CRC errors. 779736 broadcast messages have been received since last reset.

3.3.14.3.3 Dropped frames due to Deny of service protection (ethernetstats cpu)

This command allows to read how many frames have been dropped due to Deny of service protection.

\$ ethernetstats cpu DOS packet drop: 0 ethernetstats OK

Previous command result means that no frames have been dropped since last reset. See also Deny of service protection (dos) for Deny of service information.

3.3.15 Display and screen information 3.3.15.1 Screen size information (display)

This command allows to read the phone display size (in pixel).

\$ display size 800x480 display OK

3.3.15.2 Screen saver management (screensaver)

This command allows to activate, deactivate and configure the screen saver timeout.

3.3.15.2.1 Activate the screen saver (screensaver -on)

This command allows to activate the screensaver. The screen saver is immediately started.

\$ screensaver -on false

3.3.15.2.2 Deactivate the screen saver (screensaver -off)

This command allows to deactivate the screensaver. The screen saver is stopped (if it was running).

\$ screensaver -off false

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3.3.15.2.3 Configure the screen saver activation timeout (screensaver -timeout)

This command allows to configure the timeout at the end of which the screen saver is activated. Value is in seconds.

\$ screensaver -timeout 60

3.3.15.3 Save a screenshot (fbgrapipg)

This command allows take a screenshot of the current phone display and save it. Screenshot file can then be downloaded using the SFTP access (see File transfer SFTP connection).

3.3.15.3.1 Save an immediate screenshot (fbgrapjpg)

This command allows take a screenshot of the current display and save it (/tmp/test.jpg).

\$ fbgrabjpg /tmp/test.jpg Converting image from 32 bits assigning image writing image

3.3.15.3.2 Save a screenshot after a sleeping timeout (fbgrapjpg -s)

This command allows take a screenshot after a given timeout and save it (/tmp/test.jpg). In the next example, the screenshot is taken 5 seconds after the command is used.

\$ fbgrabjpg -s 5 /tmp/test.jpg Converting image from 32 bits assigning image writing image

3.3.15.3.3 Save a screenshot with a different jpeg quality (fbgrapjpg -q)

This command allows take a screenshot and configure the jpeg quality and save it (/tmp/test.jpg).
By default (without this parameter), the quality is 90%.
In the next example, the screenshot jpeg quality is 50%.

\$ fbgrabjpg -q 50 /tmp/test.jpg Converting image from 32 bits assigning image writing image

3.3.16 Led management (ledstate)

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This command allows to get and set the sensitive keys led states (lit or not and color).

3.3.16.1 Read the states of all the leds (ledstate get all)

This command allows to get the sensitive keys led states (lit or not and color if lit).

```
$ ledstate get all
$ ledstate
led 1 off
led 2 off
led 3 off
led 4 off
led 5 B
 led 6 off
led 7 off
led 8 off
 led 9 off
ledstate OK
```

The previous command result means that all the led are not lit except the 5th (O key) which

is on with blue color.

Some led may be lit with different colors: led 5 (O) and 9 (home). The others have only one. For the led having several color possibility, when lit, the value returned is the color. For the led having only one color, when lit, the returned value is "on".

The possible colors are R (red), G (green) and B (blue).

3.3.16.2 Read the state of one led (ledstate get x)

This command allows to get the specified sensitive key led state (lit or not and color if lit).

```
$ ledstate get 1
led 1 off
ledstate OK
```

The previous command result means that the mute key led is are not lit.

3.3.16.3 Set the state of one led (ledstate set x v)

This command allows to set the specified sensitive key led state (lit or not and color if lit).

```
$ ledstate set 4 on
$ ledstate set 4 off
```

To lit multiple color leds, the color has to be used instead of the "on" parameter.

```
$ ledstate set 5 B
```

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```
$ ledstate set 5 off
```

3.3.17 Bluetooth management 3.3.17.1 Bluetooth handset pairing passwords

During pairing, default password for the Bluetooth handset is 0000, however some old handset versions only accept password 5555.

3.3.17.2 Read the firmware and software versions (btid)

This command allows to read the terminal firmware version and the handset firmware and

```
$ btid
**Bbtid#*
VHE VER info: DFU= 34
BTH VER info: BIN= 01.011 DFU=34
btid OK
```

The previous command result means that the terminal firmware version is 34 and the handset firmware and software versions are 34 and 01.011

3.3.17.3 Read the terminal local address (btaddr)

This command allows to read the terminal address.

```
$ btaddr
#btaddr#
00:13:78:54:0F:88
btaddr OK
The previous command result means that the terminal Bluetooth address is
```

00:13:7B:54:0F:88

3.3.17.4 Launch an inquiry (btinquiry)

This command allows to do a Bluetooth inquiry (scan the existing BLuetooth devices in the terminal range).

```
$ btinquiry
#btinquiry#
Found 4 bluetooth devices:
Inquiry result:00:25:D0:B1:C1:A3 cod:0x5a020c
```

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Inquiry result:00:23:4D:F2:5E:16 cod:0x7c010c
Inquiry result:54:92:BE:B0:BA:51 cod:0x5a020c
Inquiry result:90:4A:7B:D1:04:2A cod:0x520204
btinquiry OK

btinquiry OK The previous command result shows there are 4 other Bluetooth devices in the terminal range.

3.3.17.5 Read the paired devices address (btpair)

This command allows to read all the paired devices address.

\$ btpair #btpair# handset 00:13:7B:54:0E:6D headset none btpair OK

The previous command result means that the 00:13:7B:54:0E:6D Bluetooth device is currently paired to the terminal.

3.3.17.6 Read the paired handset device address (btpair handset)

This command allows to read the paired handset device address.

\$ btpair handset
#btpair#
handset 00:13:7B:54:0E:6D
btpair_OK

The previous command result means that the 00:13:7B:54:0E:6D Bluetooth handset device is currently paired to the terminal.

3.3.17.7 Read the paired headset device address (btpair headset)

This command allows to read the paired headset device address.

\$ btpair headset
#btpair#
none
btpair OK

The previous command result means that no Bluetooth headset device is currently paired to the terminal.

3.3.17.8 Pair a device (btpair set <device Bluetooth address> <device pairing password>)

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This command allows to pair a device.

\$ btpair set 00:13:7B:54:0E:6D 0000 #btpair# Start pairing btpair OK

The previous command pairs the Bluetooth device 00:13:7B:54:0E:6D pairs to the terminal (device pairing password is 0000).

Note that the device has first to be put in pairing mode.

3.3.17.9 Unpair a device (btunpair handset | headset)

This command allows to unpair a device.

\$ btunpair handset #btunpair# End pairing handset 00:13:7B:54:0E:6D btunpair OK

The previous command unpairs the currently paired Bluetooth handset (00:13:7B:54:0E:6D). Use **btunpair headset** to unpair the currently paired Bluetooth headset. Use **btunpair** to read the currently paired devices.

3.3.17.10 Read the paired handset state (btstate handset)

This command allows to read the paired handset state (logical, link and range).

\$ btstate handset
#btstate#
logical connected
link sniffed
range in
btstate OK

The previous command result means that the paired Bluetooth handset device is connected and in range.

3.3.17.11 Read the paired headset state (btstate headset)

This command allows to read the paired headset state (logical, link and range).

\$ btstate headset
#btstate#
logical notconnected
link notconnected
range out

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The previous command result means that there is no paired Bluetooth headset.

3.3.18 Security management 3.3.18.1 PC port protection (pcport)

This command allows to read the terminal ethernet PC port protection status.

```
$ pcport
protection: off
```

The previous command result means that the terminal PC port is not blocked.

3.3.18.2 802.1x authentication (dot1x)

This command allows to read the 802.1x authentication terminal configuration.

```
$ dot1x
MD5:DISABLED
TLS:DISABLED
Login: ALCICT
MD5 passwd: <empty>
TLS Server Authent: false
dotlx OK
MAC Use: false
```

The previous command result means that the MD5 and TLS authentication are disabled ALCICT is the login (without MAC address addition), there is no MD5 password set and there is no TLS server authentication.

3.3.18.3 Certificate Management (certificate) 3.3.18.3.1 Read certificate

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Print info from the active device certificate

```
$ certificate
[0] Alcatel-Lucent certificate
   Subject: C=FR, O=Alcatel-Lucent, OU=PKI Authority, CN=00809FA0077C
certificate OK
```

List all device certificates embedded in the terminal and their numbers:

```
$ certificate list
List of certificates :
```

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[0] Alcatel-Lucent certificate Subject: C=FR, O=Alcatel-Lucent, OU=PKI Authority, CN=00809FA0077C

[1] Customer certificate File is not present

certificate OK

Print the certificate in pem format from the previous list:

\$ certificate pemshow 0 ----BEGIN CERTIFICATE---

----BEGIN CERTIFICATE---MIIDDDCCAfagAwIBAgIQE2oqgDyWgFBgpDQ8DGbFxDALBgkqhkiG9w0BAQUwVTEL
MAKGAlUEBhMCRlixFzAVBgNVBAoTDkFsY2F0ZWwtTHVjZW50MRYwFAYDVQQLEwlQ
S0kgQXV0aG9yaXR5MRUWEwYDVQQDEWXXAXJ1ZCBQaG9uZXMMHhchMTAwNTA3MTQ1
MDA5WhchMzAwNTA3MTQ1MDA5WjSWQ5wCQYDVQCEWJGUJEXMBUGALUECHMOQWxj
YXRlbC1MdWNlbnQxFjAUBgNVBAsTDVBLSSBBdXRob3JpdHkxFTATBgNVBAMTDDAW
ODA5RKEwMDc3QzCBnzANBgkghkiG9w0BAQEFAAOBjQAwgYkCgYFSA5TUGfhLFtVWw
PlyDy-NrsnBBIgid9BNNlJJC/wA8fuExJxSoZ9Hkbm5Tcnhx4GwufflOy+ZLFVcrZ
XMHqAkwLnYUL/3Mhc9K9MOHrhUJp3PymU4z7xglFTjWYOoFBQCViFcY1sx3fYRK xMHqAkwLnYUL/3Mhc9K9MOHrhUJ93PymU427xqlETjWYOoFBQcViFcY1sx3fv7RK
tshY5ong7waESUtSaxGTbv9N1SqHBGUCAwEAANQMFwDADYDVRTAQH/BATWADAD
BgNVHQ8BAf8EBAMCBaAwHQYDVRO1BBYwFAYIKwYBBQUHAwIGCCsGAQUFBwMBMB6G
AlldIwQYMBaAFNIFozjmWmshTyxIVXwSpJU28wCMAsGCSqGS1530QDEBQOCAQEA
2cq2ZyrHphKz/U+101Z2CZgpca/+dbco1r2kDcuqwqC2FyhG1nALTaJd4cPNEv6y
O53Ccy5khvmFvvAdCX/xUgn4zJ0J+IdPC1B7qQVIU9nq4sev015PkqenoYr3Aege
wVVhUZm0V0wCbBihSHYbnpw/QeXFoujq14vW3F2BaQZGOvZgJntBk1/EcJ0671or
aNFkY44AunX5b01EXiavR9mTNNYA6sWTAbF71dGCMUKN4hRe0++rxYgLDqdzCluY
ALIso1ze14kenAZOAXzcUFHD4VMBnj0HsSYPsvojWkiQh1/C4+pG2LW1kpN17Zd5
HIllWTG7_CR@ECVGLOBOEW== UllwTgr2/RgECyGuQo8oEw== -END CERTIFICATE----

certificate OK

Print the certificate from the CA:

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\$ certificate pemshow CA ----BEGIN CERTIFICATE---

MIIBBDCCAuygAwIBAgIQNEFdSY18pohPnGrxIBVrzTANBgkqhkiG9w0BAQUFADBe
MQswCQYDVQQCGwJGUjEQMA4GA1USChMHQWxjYXRlbDEMMBQGA1USCXMNUELJIEFI
dGhvcml0 eTELMCMGA1UEAXMcQWxjYXRlbCBFbnFlcnBysXNIIFNVbHVOAW9uczAe
Fw0wNTA5MjgwODE2NDhaFw0yNTA5MjgwODIYMDRAMF4XCZAJBgWVBAYTAXSXMAw
DgYDVQQKEwdBbGNhdGVSMRYwFAYDVQQLEwlqS01KgQXVOaG9yaXR5MSUWIYDVQQD
EXXBBGNhdGVS1EVudGVycHJpcZUgUZ9sdXRpb25zMIIBIJANBgkqhkiG9w0BAQEF
AAOCAQ8AMIIBCQRCAQEAGFVkbQgleGIRcmo02B1+pnItlv75BamMtDmThSjvOiG0
q6Ool14mPApwRqumFD4OTrAasBHCha5V+4MX4sgxo5+6HiFh3ukmI/1yTeHMcK6
Lrdsej941KWAiMUiZ+tTqmWSbfFBXHdt4i+CE6B4Mcz1EYfikh8DOL5ny/PT6Ox
hqgsKXcz/0gDKOZGxbCOtWDtThCafcfy0SWO+gNCoGu2UAKMjOPdspZsdgSzhJyM
qS6/6PEMB/ARxYAn3gsHcLA4KRSyCRuInC34uMMPhK5wRxJZKROCGae9zAQ4rMINz
Ar81a4H4e5sYcyXGDSrFEt8eZoPRop7zpbsqFE6QjOIDAQABo4G9MIG6MA4GA1Ud
DWEB/wpEAWIBBjAPBRWNHWBMA5REBTADAQH/MBOGA1UdDgWBBS3HO5FQDd88ea
121ECNGaTLpkDTAQBgkrBgEAYI3FQEEAWIBADBmBgnVHSABXZRdMFsCCSsMAodu
SQAAATBOMEwCCCSGAQUFBWICMEAepgBQAEMAIABBAGWAYWBhAHQAZQBsACAARQBu
AHQAZQBYAHAACgBpAHMAZQAgAFMAbwBSAHUAdABPAG8AbgBzMA0GCSGSID3DQEB
QUUAA41BAQAXgu5a3V3/apu9BTVVYFB6V1MZ4h1PktwsPaBlZwcbzQF2M/3w2y1
bOdccJYJV1e13PqRlw1w1n8fENDZ1WTOJfejcZbCWSArtT-lykffTm%9CrugSNES1x
ztPPaIu5cTqfqL3VGyKLvgsjupvo/pnSlCQBMpmleDp9jcWOtNe3zMEDp3DM15uX
PNRXITnaPY6kSahdO7xYOBeJQ9zs4Mw0AVPYqze517QrIFdvoCRg7XwetvZXfRbq
NRXITnaPY6kSahdO7xYOBeJQ9zs4Mw0AVPYqze517QrIFdvoCRg7XwetvZXfRbq
NRXITnaPY6kSahdO7xYOBeJQ9zs4Mw0AVPYqze517QrIFdvoCRg7XwetvZXfRbq MIIEBDCCAuygAwIBAgIQNEFd5Y18pohPnGrxIBVrzTANBgkqhkiG9w0BAQUFADBe



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dxiXVYJx6iXFpS6LqGMFi52SxcATqzJNhcje3RZx1CIWYJ/wMEJFqKgNVS20eU67 Mu7WGFIF+oTCfEY2ic2JJ2U15iC05+Ct ----END CERTIFICATE--------BEGIN CERTIFICATE---

MIIDtTCCAp2gAwIBAgIKE5R/5gAAAAABDANBgkqhkiG9w0BAQUFADBeMQswCQYD
VQQGEwJGUjEQMA4GA1UECMHQWxjYXRlbDEWMBQGA1UECXMNUEtJIEF1dGhvcml0
eTElMCMGA1UEAXMcQWxjYXRlbCBFbnRlcnByaXNlIFNvbHV0aW9uczAeFw0xMDAX

MIIDcjCCAlggAwIBAgIIMiY+xBM5RJkwDQYJKoZIhvcNAQEFBQAwOzE5MDcGA1UE AwwwSVAgVE9VQOggUOVDVVJJVFkgTU9EVUxFICOgUm9vdCBDQS9PPVRIQUxFUy9D PUZSMCAXDTA5MDczMTIwNTYzN1oYDzIxMDkwODAxMjA1NjM3WjA7MTkwNwYDVQQD DDBJUCBUT1VDSCBTRUNVUk1UWSBNT0RVTEUgLSBSb290IENBL089VEhBTEVTL0M9 DBDDDGBTANN JUNDEN JANUS gcIdk4Z+SNN3whjjqo7AINhHw5nnn3i5j2bJ/xGdRH+2/i90MYbGGH4B6B+RmLV3 V15Gibh9ifPjx6utXQ4qkQY3ZJeTt109qjaUvzKmqepwxUhGGvMeL783ZxsmPsO3 aHsdAgMBAAGjeD8ZM6CGAIUdbgQMBSIx+dGwCMPOSJLX4qc1+rJbQDDAPSgMV HRMBAf8EBTADAQH/MB8GAIUdJWQYMBABILXH513BxZ4/RIkVHipyX4msluoMMA4G AluddweB/wQEAwIBhjATBgNVHSUEDDAKBggrBgEFBQcDATANBgkqhkiG9w0BAQUF AlUdbwEB/wQEAwIBhjATBqNVHSUEDDAKBggrBgFBQcDATANBgkqhkiG9w0BAQUF
AAOCAQEAM944X4HQ2IOO/2MKTO8Borb/318KQ1U2nyccQbbURSTOU/qi23SSynk80
3sTDB6ZPjKoy6nKamE2+FnQeNEhtk+fbTG0o9TklehC2lUxgMioAPkpIdTPCTlqw
qefJnkcxYhCt5SaTFFjfYUpKNfOQQ46AmKbgNpha+0O0moUTcsZU/St7u3v/kmm7
Y3xb/dsnsBQXzrg9vYulKy/SBcCOugEPMgaHbZ0BSCT0TB8Q3jnkNkvEPCgWZZW
z/1sFQfuKGqLhjaG2ja63EjPLbc8B6q4qCymPNKWpGzWdeRNcaiZ/FC+CNtlZ3qY
yUXIqX2cJmg05LylGNg4Zs3ShTZBPQ==
----END CERTIFICATE----certificate OK

Important notice: if customized certificate with certification chain has been installed this list includes the certificates from the certification chain of the PKCS12 file.

3.3.18.3.2 Customized certificate 3.3.18.3.2.1 Insert customized certificate

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A customer certificate must be provided by external PKI or embedded PKI from 8770 using the format **pkcs#12** which contains the

private/private keys and requires a password at installation.

- The Common Name of the certificate MUST corresponds to the MAC address of the set.
- Certificate can provide or not the **certification chain**. If provided the certificates from the certification chain will be stored in the CA list of the set.
- Alternatively the truted CA can be provided through **an external CTL signed by one of the set** and download on all the other sets in the **CTL List**.

Download a pkcs#12 certificate using the supplied url with command certificate download <URL>

```
cypassword>:
$ certificate custom
http://135.117.65.230/dmictouch/certificats/cert_vhe_lab.pl2 123456
Downloaded pkcs#12 file removed.
   No CA to verify.
Files stored successfully.
 certificate OK
Waiting 5 seconds before trying to reboot ...
soft reboot requested
popupid is chpup2011060615521922048
The password is used to decrypt the file, it might be empty. If the download and the verification is
```

OK the certificate is installed as the new device certificate.

3.3.18.3.2.2 Delete the customized certificate

Delete custom certificate, using command certificate delete:

```
$ certificate delete
certificate OK
Waiting 5 seconds before trying to reboot ...
soft reboot requested
popupid is chpup201106061558597371
```

3.3.18.3.3 CTL file

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Display the presence of CTL file using command CTL :

```
no CTL file
CTL OK
```

Print the certificate from the external CTL signed by other VHE device using command :

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```
$ certificate pemshow CTL File is not present.
certificate OK
        Erase CTL file with command CTL erase
```

3.3.18.4 Deny of service protection (dos) 3.3.18.4.1 Configuration parameters (dos)

This command allows to read deny of service protection configuration parameters (thresholds and bursts).

```
$ dos
dos information:
Ucast: 15360 128
Mcast: 20480 128
Bcast: 20480 128
OK
```

The previous command result lists the thresholds and bursts for the unicast, multicast and broadcast protections.

3.3.18.4.2 Under attack status (dos summary)

This command allows to read if the terminal is currently under attack.

```
# dos summary
dos attack[ucast:
                            00000024]
       The previous command result means that there is a unicast DoS attack in progress and 24
```

packets have been discarded.

Note that if the phone rests because of the DoS protection, there will be an entry logged in the phone reset cause list (See Check the reset causes)

See also Ethernet ports statistics (ethernetstats) for Deny of service dropped packets

3.3.19 Hardware management 3.3.19.1 Hook state (hookstate)

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This command allows to read the terminal hook state (on or off hook).

```
$ hookstate
#hookstate#
hookstate OK
       The previous command result means that the handset is on the terminal.
```

3.3.19.2 Headset plug and hook states (headsetstate)

This command allows to read the headset plug (plugged or not) hook state (on or off hook).

```
$ headstate
#headstate#
plugged no
headstate OK
```

The previous command result means that no headset is plugged

Only plug or hook state can also be read by using **headstate plugged** or **headstate hookstate**.

3.3.19.3 Backlight activation and deactivation and level (backlight)

This command allows to activate or deactivate the backlight and to set its level.

3.3.19.3.1 Backlight activation and deactivation (backlight set 1 | 0)

This command allows to activate or deactivate the backlight.

```
$ backlight set 1 backlight OK
$ backlight set 0
        Note that this only activates the backlight which will go again to low level state after the
```

configured timeout.

3.3.19.3.2 Backlight level (backlight level x)

This command allows to set the current backlight level. Allowed values are 0 (no light) to 31.

```
$ backlight level 0
backlight OK
The previous command result is that the screen will not be lighted.
```

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3.3.20 Voice over IP information 3.3.20.1 RTCP statistics of current call (rtcpstats)

This command allows to read the current call RTCP statistics: RTP packets sent, received and lost, jitter, latency, RTPC packets sent and received, \dots

```
$ rtcpstats 0

frtcpstats#

rtpout 0

rtpin 0

rtpiost 0

rtpjitter 0

rtplatency 0

rtcpin 0

rtcpin 0

rtcpin 0

rtpipitter 0

rtplatency 0

rtcpin 0

rtcpin 0

rtcpin 0

rtcpin 0

rtcpitermax 0

rtpipittermax 0

rtpipitterstata 0

rtpoutPeakBitRate 0

rtpoutPeakBitRate 0

rtpinPeakBitRate 0

rtpinPeakBitRate 0

rtpinPeakBitRate 0

rtcpstats OK

In the previous command, the O parameter means the active communication. No other parameter value can be used.
```

parameter value can be used.

3.3.20.2 Voice over IP statistics of last calls (voipstats)

This command allows to read the last 6 calls voice over IP statistics:

```
$ voipstats 0 #voipstats#
QOS TICKETS on session: 0
Start Time = 2011-06-23 15:12:17
Stop Time = 2011-06-23 15:12:52
Local Metrics:

LADDR =172.25.34.7 :Local IP Address
RADDR =155.132.130.116 :Remote IP Address
LPORT =6000 :Local SSRC
RPORT =32248 :Remote Port
RSSRC =0x26be44c7 :Remote SSRC
CODEC =1 :codec id
```

SFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	ER D O O PPP PPP PPP PPS PSUP LC HBBA HBBA HBBA HBBA HBBA HBBA HBBA HBB	=50 =0 =0 =0 =0 =0 =0 =0 =0 =0 =	:Payload Type :Sample Rate :Frame Duration :Frame Porane :Frame Per Packet :Packet Per Second :Silence Suppression State :Packet Loss :Jitter Buffer Adaptive :Jitter Buffer Nominal :Jitter Buffer Nominal :Jitter Buffer Nominal :Jitter Buffer Abs Max :Network Packet Loss Rate :Jitter Buffer Discard Rate :Burst Loss Density :Burst Duration :Gap Loss Density :Gap Duration :Minimum Gap Threshold :Round Trip Delay :End System Delay :Signal Level :Noise Level :Residual Echo Return Loss :R Factor :ext. R Factor
Remote Me L R L L R R R P R	CCQ EXTRI TOSLQ TOSCQ Strics: ADDR ADDR ADDR PORT SSRC PORT SSRC CODEC	=1 =0 =44 =10 =155.132.130.116 =172.25.34.7 =32248 =0x26be44c7 =6000 =0x452eed0e =1 =8	:R Factor :ext. R Factor :MOS-LQ :MOS-CQ :MOS-CQ :Local IP Address :Remote IP Address :Local Port :Local SRC :Remote Port :Remote SSRC :codec id :Payload Type
F F F P S P J J J J J N N	TD TO TPP PPS SSUP FLC FBA FBN FBN FBM FBX FILR FDR	=20 =160 =2 =50 =0 =0 =0 =0 =0 =0 =0 =0	:Sample Rate :Frame Duration :Frame Octets :Frame Per Packet :Packet Per Second :Silence Suppression State :Packet Loss :Jitter Buffer Adaptive :Jitter Buffer Rate :Jitter Buffer Nominal :Jitter Buffer Abs Max :Network Packet Loss Rate :Jitter Buffer Duss Rate :Jitter Buffer Abs Max :Network Packet Loss Rate :Jitter Buffer Dussard Rate :Burst Loss Density

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```
:Burst Duration
:Gap Loss Density
:Gap Duration
               GLD
               GD
                                                              :Minimum Gap Threshold
:Round Trip Delay
:End System Delay
:Signal Level
               GMTN
                               =0
               SL
               NL
                              =0
                                                              :Noise Level
:Residual Echo Return Loss
               RERT.
                                                              :Residual Echo
:R Factor
:ext. R Factor
:MOS-LQ
               RCQ
EXTRI
               MOSLQ
MOSCQ =0 :MOS-CQ
voipstats OK
In the previous command, the 0 parameter means the last ended call. For the call before last
```

call, use 1. And so on (until 5).

There are two sets of information: one from the phone itself and another from the phone it was in communication with.

The information returned are based on the RTCP-XR measurements.

3.3.21 Network tools 3.3.21.1 Ping

This command allows send an ICMP message to a remote IP equipment and wait for its

```
$ ping 172.25.34.7
PING 172.25.34.7 (172.25.34.7): 56 data bytes
64 bytes from 172.25.34.7: seq=0 ttl=64 time=0.844 ms
64 bytes from 172.25.34.7: seq=1 ttl=64 time=0.389 ms
64 bytes from 172.25.34.7: seq=2 ttl=64 time=0.389 ms
64 bytes from 172.25.34.7: seq=3 ttl=64 time=0.380 ms
64 bytes from 172.25.34.7: seq=4 ttl=64 time=0.385 ms
67 or 172.25.34.7: seq=4 ttl=64 time=0.385 ms
            - 172.25.34.7 ping statistics
5 packets transmitted, 5 packets received, 0% packet loss round-trip min/avg/max = 0.380/0.477/0.844 ms

It is the linux classic ping command. Use ping -help for more information.
```

3.3.21.2 Traceroute

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This command allows to get the route (IP equipments in between) from the phone to another IP equipment.

```
$ traceroute nmc-beta-ts.fr.alcatel-lucent.com traceroute to nmc-beta-ts.fr.alcatel-lucent.com (135.117.65.230), 30 hops max, 38 byte packets
1 frillrcb-c0-tss-1-vl134.fr.alcatel-lucent.com (172.25.34.2) 17.133 ms 2.306 ms 2.267 ms
2 swbb-c0-1-vl931.net.alcatel-lucent.com (172.25.15.242) 1.431 ms
2 swbb-c0-1-v1931.net.alcatel-lucent.com (172.25.15.242) 1.431 ms
1.182 ms 1.167 ms
3 illkirch6-ge0-3-951-imported.net.alcatel-lucent.com (172.25.15.202)
1.086 ms 0.915 ms 0.880 ms
4 fr-marcoussis-abr-02-a-5-0-0s3.net.alcatel-lucent.com
(139.54.237.173) 16.743 ms 16.372 ms 16.648 ms
5 colombes6-atml-0-net.alcatel-lucent.com (139.54.255.2) 19.284 ms
18.617 ms 19.087 ms
6 frcolr-cs-ba-smi3-1.net.alcatel-lucent.com (139.54.248.138) 24.129 ms
23.023 ms 31.667 ms
7 frcolr-cs-ba-smi3-1-vlan900.net.alcatel-lucent.com (135.117.106.1)
21.742 ms 19.896 ms 20.296 ms
 21.742 ms 19.896 ms 20.296 ms 8 frcolr-cb-ba-smi3-1-vlan911.net.alcatel-lucent.com (135.117.106.10) 33.355 ms 21.993 ms 21.309 ms 9 nmc-beta-ts.fr.alcatel-lucent.com (135.117.65.230) 19.284 ms 19.815
  ms 19.190 ms
```

Previous command result shows, for example, all the routers between the phone and its OmniVista 8770 (nmc-beta-ts.fr.alcatel-lucent.com).

An IP address can also be used (instead of a FQDN).

It is the linux classic traceroute command. Use **traceroute -help** for more information.

3.3.21.3 ARP table content (arp)

This command allows to get the phone ARP table content (MAC - IP address association).

3.3.21.4 Current routing information (route)

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This command allows to get the phone current routing information.

\$ route							
Kernel IP routin	ng table						
Destination	Gateway	Genmask	Flags	Metric	Ref	Use	e
Iface							
172.25.34.0	*	255.255.255.0	U	0	0	(0
eth0.134							
default	frillrcb-c0-tss	0.0.0.0	UG	0	0	(0
eth0.134							

It is the linux classic route command. Use **route -help** for more information.

3.3.21.5 Port mirroring (mirror)

This command allows activate the LAN port mirroring to PC port: all the frames exchanges on the LAN port are also copied to the PC port.

Once activated, it allows to connect a PC to the PC port and run a network capture (wireshark for example) and capture all the LAN port traffic.

3.3.21.5.1 Check current activation state (mirror)

\$ mirror
idle
mirror OK
Previous command result shows that the mirroring is not activated.
If activated, command returns **lan** meaning the LAN port is mirrored.

3.3.21.5.2 Activate and deactivate (mirror set lan / mirror set idle)

To activate LAN mirroring:

\$ mirror set lan mirror OK

To deactivate LAN mirroring:

\$ mirror set idle mirror OK

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