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<u>Su</u>	Subject: IP-DECT PARI format					
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1 Overview

This paper basically explains how to use the PARI identity recovered from the eBuy web site to set the PARI of an IP-DECT system.

Due to a change in the format to input, a conversion is necessary. This conversion is described in this paper. In the near future, the site page will display the two formats.

The document gives some background about the PARI and the PARI formats. If you are just interested in the conversion procedure, go directly to *section 4 - "How to convert octal format to hexadecimal format"*.

Refer to section "Appendix A: Navigating to the "PARI codes" page" for the details of accessing the PARI codes list.

Refer to section "Appendix B: Entering the PARI in IP-DECT" for the details of setting the PARI of an IP-DECT system.

2 History

ED	DATE	CHANGE NOTE
01	04/02/2013	Creation



3 Background information

3.1 What is a PARI

The PARI (Primary Access Rights Identity) is a unique identity to a DECT system.

This identity is broadcast by the DECT system and allows DECT handsets to recognize DECT systems and determine its access rights (whether it has the rights to connect to this system).

To perform according to standard and regulations, a DECT system needs to be assigned a worldwide unique PARI, specific to the DECT system.

Alcatel-Lucent manages the assignation of the PARI to business partners through the eBuy web site accessible through the Enterprise Business Portal.

3.2 Accessing the PARI assigned to an installation

Follow link: <u>https://ebuy.businesspartner.alcatel-lucent.com/CodePari/Install_List.aspx</u>

See section "Appendix A: Navigating to the "PARI codes" page" for the details of accessing the PARI codes list.

The picture below shows the "PARI codes list" area of the « Modify and/or refer to an existing installation» page. This is where the PARI Code of your installation are shown. Note: an installation can have several DECT nodes. Each node has its own PARI.

PARI codes list

Node #	PARI Code	Status
1	10001441640	Reserved (used)

Traditionally the PARI has been provided as an octal string (see red box above).

Recently Alcatel-Lucent has introduced a new kind of DECT solution, the IP-DECT, which enables to deploy the DECT base stations over IP links.

As other DECT system, the IP-DECT system needs to be assigned a PARI. The PARI identity is the same both for IP-DECT system and for IBS / RBS DECT system.

But the PARI is entered in IP-DECT system as a string of 8 hexadecimal characters.

This paper provides some information about the PARI and the 2 formats. It explains also how to convert an octal format, found on the web site, to the hexadecimal format used on IP-DECT systems.

3.3 One identity, different formats

The PARI consists of 31 bits. It is always the same identity but different formats can be used to represent it.

3.3.1 'Traditional' octal format (IBS / RBS infrastructures)

Alcatel-Lucent traditionally represents the PARI as an 11 octal character string.

11 octal characters correspond to 33 bits. To get 33 bits the 31 bits of the PARI are completed t by 2 bits set to 0 added to the right, in the 2 least significant positions. Therefore the last octal character is always "0" or "4".



ARI distributed by Alcatel-Lucent for its systems is a B class ARI. As a result the most significant octal character (left) is always "1" (the class is coded on the 3 most significant bits of the ARI).

3.3.2 Hexadecimal format (IP-DECT infrastructure)

On the systems IP-DECT PARI must be entered in hexadecimal (digit 0-9 plus A, B, C, D, E and F).

To change the octal format to hexadecimal format, one way is to use a calculator for conversion between different bases; for example, the calculator application included by default in Windows.



4 How to convert octal format to hexadecimal format

To convert octal format to hexadecimal format, one needs a scientific calculator supporting these formats. One of such calculator is the calculator available on Microsoft Windows™ (the application called "calc.exe"). Beware the "scientific" mode shall be selected in "Display" menu.

4.1 Procedure

- 1. Switch the calculator in octal mode (check "oct")
- 2 Enter PARI retrieved from the Alcatel-Lucent site (identity in octal).
- 3 Divide the value by 4
- 4 Switch the calculator in hex mode (tick "hex")
- 5 The displayed value is the value in hexadecimal format. This value can be used to configure the PARI on an IP-DECT system.

Note: the displayed string consists of 8 hexadecimal characters. A hexadecimal character is a character comprises in the range 0-9 and A-F.

4.2 Application example

Convert the PARI code "10001441640" found on the eBuy site.

- 1) Switch the calculator in octal mode
- 2) Enter the PARI code in octal (from the eBuy site). Note: it is an 11 octal characters string.

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	O Hex O Déc	⊙ Oct O Bin	💿 Q-mot 🔿 D-mot	O Mot O Octet
Inv Hyp Retour amère CE C	Inv Hyp		Retour amière	CE C

3) Divide the value by 4 (« / », « 4 », « = »)

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		2000310350
◯ Hex ◯ Déc ⊙ Oct ◯ Bin	⊙ Q-mot O D-mot O Mot	Octet
 4) Switch the calculator in hexade 5) The displayed value "1001906 Note: it is an 8 hexadecimal c 	ecimal mode E8" is the code to be entered ir haracters string.	n the IP-DECT configuration screen.
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		100190E8
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5 Appendix A: Navigating to the "PARI codes" page

To create and consult the PARI codes assigned to your Alcatel-Lucent DECT systems, you have to access the "DECT Installations Management" page. Through this page you will be able to search your existing installations and to create new ones if needed.

In the Modify and/or refer to an existing installation» page your will consult the PARI assigned to your installation.

5.1 Access to the "DECT Installations Management" page

5.1.1 Access through eBuy

Follow link: <u>https://ebuy.businesspartner.alcatel-lucent.com/</u> and login to your account.

In the top bar hover over « e-Licensing Services »

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Then click on « DECT installations mngt » you will access the "DECT installations management (PARI Codes)" page.

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5.1.2 Access through Enterprise Business Portal

Follow link: <u>https://businessportal.alcatel-lucent.com/</u> and login to your account.

In the top bar hover over "Customer Support" then click on "Technical Support". Beware you have to click on "Technical Support" and then wait for the "Technical Support" page to open.

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Once in the « Technical Support » page, you will find in the right the « Technical Quick Links » box. Click on "SECT/PWT installation Management". You will be directed to the "DECT installations management (PARI codes" page, which see.

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Technical Documentation Network Infrastructure Just click here and you will find your Network Infrastructure Technical	Network Infrastructure Support Site AAPP Factory facebook.com/ALECustomerCare		



5.2 The "DECT installation management" page

This page enables to find the installation where the DECT system is deployed.

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5.3 « Modify and/or refer to an existing installation» page

After finding the installation, this page displays the information relative to the installation. Especially it shows the "PARI code list" area (see red box)

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5.4 The "PARI codes list" area

The "PARI codes list" area shows, one per row, the PARI assigned to the different nodes. Depending on installation there can be a unique node or several nodes.

The PARI octal string is shown in the red box.

PARI codes list

Node #	PARI Code	Status
1	10001441640	Reserved (used)



6 Appendix B: Entering the PARI in IP-DECT

6.1 Entering the PARI in IP-DECT Configurator (OXE solution)

In OXE solution the PARI is filled in the application "IP-DECT Configurator", part of the DAP manager package.





	DAP configurator	
Customer/Suppler Info The Second Seco	DAP configurator IP-DECT Configurator IV System Network Settings CDA IP Configuration Network Corporate Directory IP Address 172 Corporate Directory Port Number 301 DECT Settings PARI G723 Mode G72 Multicast Settings 235 Cancel & Exit Cancel & Exit	SIP Settings Misc. Settings 19 62 80 60 194EA 39 not supported 192 49 49

System Information	Network Settings	SIP Settings	Misc. Settings
DA IP Configuration Corporate Directory IP A	ddress 📑	72.19.62.80	
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PARI		100094EA	
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