

# **XML Phonebook Specification**

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22. Mar. 2011



# Activation of the Remote Phone Book

› To use the remote phone book, the URL of the remote phone book should be set.

- Connect to the Web admin using a web browser.
- Go to the Phone Book page.
- Input an URL for the remote phone book in the green box of the figure.
- Press the "Change" button to save.

## <Note>

The phone only sends the request URL to the server, receives the response from server, parses and displays the XML data in the response.

So, a server should execute the searching according to the request from the phone and send the result to the phone.

The screenshot displays the 'IP8815 Web Manager (SIP)' interface. On the left is a navigation menu with options: VoIP Configuration, LAN Configuration, Call Preferences, Dial Plan, Phone Information, Phone Settings, **Phone Book** (highlighted with a red box), Programmable Key, Call Log, Network Time Configuration, Upgrade Configuration, QoS Configuration, Load Default Configuration, and Reboot. The main content area is titled 'Phone Book List' and contains a table with columns: Speed Number, Name, Address, Information, Clear, Modify, and Dial. Below the table are buttons for 'Add', 'Clear', and 'ClearAll'. Further down are buttons for 'Download', 'Browse...' (next to an empty text input field), and 'Upload'. Below this is the 'Remote Phone Book URL' section, which has a 'URL' label and a green text input field. A 'Change' button is located below the input field. At the bottom right, there is a link 'Return to the Site Map'. The LG-ERICSSON logo is at the bottom left of the interface.

# Format of the URL for the Remote Phone Book

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- › The phone uses the HTTP/HTTPS protocol between the phone and the server.
- › The phone supports three reserved words, #IP, #MAC, and #SEARCH.
  - #IP is replaced to the IP address of the phone.
  - #MAC is replaced to the MAC address of the phone.
  - #SEARCH is replaced to the word for searching a user input.
- › The reserved words are replaced to each value when the phone requests to the server.
  
- › Example.
  - \* IP address : 192.168.141.100
  - \* MAC address : 00:1A:7E:01:02:03
  - \* Searching word : Bill

(inputted URL)

`http://phonebook_sever/search.php?ip=#IP?mac=#MAC?search=#SEARCH`

(translated URL)

`http://phonebook_sever/search.php?ip=192.168.141.100?mac=00:1A:7E:01:02:03?search=Bill`

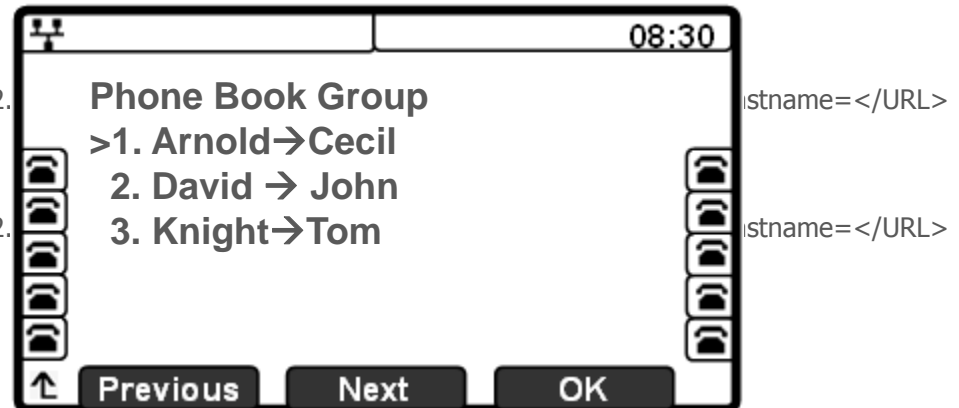
# XML Object (Menu)

- \* For displaying the menu list, the response is in the LGIPPhoneMenu format.  
Each menu entry consists of several LGIPPhoneDirectory sections which can be browsed.

```
<LGIPPhoneMenu>
  <Title>Directory title goes here</Title>
  <MenuItem>
    <Name>The name of each menu item</Name>
    <URL>The URL associated with the menu item</URL>
  </MenuItem>
</LGIPPhoneMenu>
```

## Example)

```
<LGIPPhoneMenu>
  <Title>Phone Book Group</Title>
  <MenuItem>
    <Name>Arnold->Cecil</Name>
    <URL>http://phonebook_sever/search.php?ip=172.17.12.106&mac=000590024523&section=0&lastname=</URL>
  </MenuItem>
  <MenuItem>
    <Name>David->John</Name>
    <URL>http://phonebook_sever/search.php?ip=172.17.12.106&mac=000590024523&section=0&lastname=</URL>
  </MenuItem>
  <MenuItem>
    <Name>Knight->Tom</Name>
    <URL>http://phonebook_sever/search.php?ip=172.17.12.106&mac=000590024523&section=0&lastname=</URL>
  </MenuItem>
  ....
</LGIPPhoneMenu>
```



# XML Object (Entry)

\* For displaying the directory entry, the responses are in the LGIPPhoneDirectory format.  
Each entry should be callable directly from the phones menu

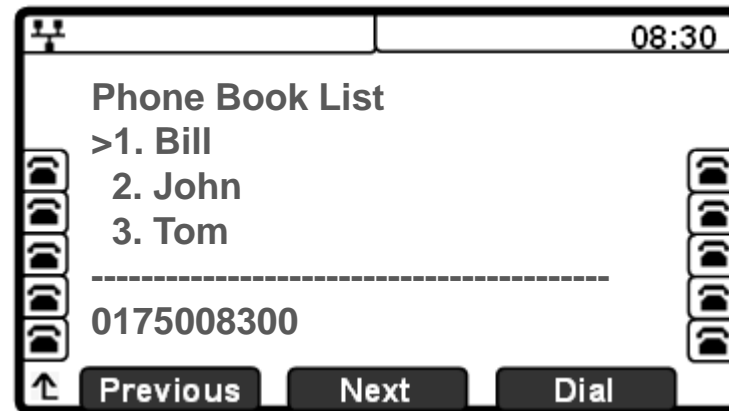
```
<LGIPPhoneDirectory>
  <Title>Directory title goes here</Title>
  <DirectoryEntry>
    <Name>The name of the directory entry</Name>
    <Telephone>The telephone number for the entry</Telephone>
  </DirectoryEntry>
</LGIPPhoneDirectory>
```

## Example)

```
<LGIPPhoneDirectory>
  <Title>Phone Book List</Title>
  <DirectoryEntry>
    <Name>Bill</Name>
    <Telephone>0175008300</Telephone>
  </DirectoryEntry>
  <DirectoryEntry>
    <Name>John</Name>
    <Telephone>0175008301</Telephone>
  </DirectoryEntry>
  <DirectoryEntry>
    <Name>Tom</Name>
    <Telephone>0175008302</Telephone>
  </DirectoryEntry>
  ...
</LGIPPhoneDirectory>
```



IP8815/  
IP8820/  
IP8830



IP8840

# XML Object (Entry / previous page & next page)

\* To go to the previous or next page, the <Item> tag in the <LGIPPhoneDirectory> will be used. The "PrevPage" and "NextPage" are displayed

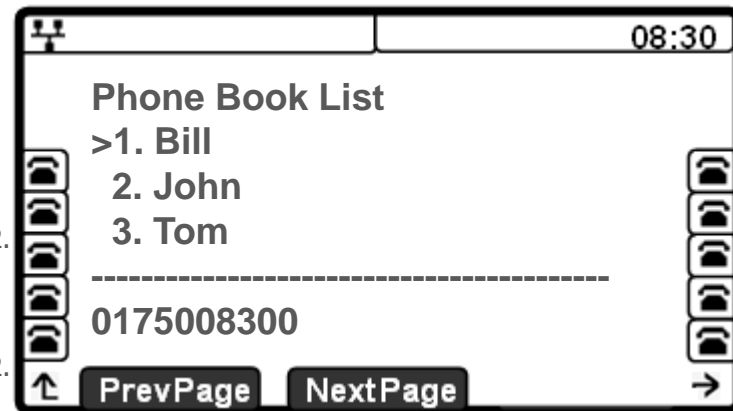
```
<LGIPPhoneDirectory>
  <MenuItem>
    <Item>previous-page</Item>
    <URL>The URL associated with the menu item</URL>
  </MenuItem>
  <MenuItem>
    <Item>next-page</Item>
    <URL>The URL associated with the menu item</URL>
  </MenuItem>
</LGIPPhoneDirectory>
```

## Example)

```
<LGIPPhoneDirectory>
  <Title>Phone Book List</Title>
  <DirectoryEntry>
    <Name>Bill</Name>
    <Telephone>0175008300</Telephone>
  </DirectoryEntry>
  ...
  <MenuItem>
    <Item>previous-page</Item>
    <URL>http://phonebook_sever/search.php?ip=172.17.12.
  </MenuItem>
  <MenuItem>
    <Item>next-page</Item>
    <URL>http://phonebook_sever/search.php?ip=172.17.12.
  </MenuItem>
</LGIPPhoneDirectory>
```



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e=</URL>

e=</URL>

# LCD display for XML Phonebook (Menu)

- \* Press the Settings button



- \* Select the "Directory" menu.

4.Call Preferences  
>5.Directory  
↑ Previous Next OK

- \* Select the "Remote Phonebook" menu

1.Phone Book  
>2.Remote Phonebook  
↑ Previous Next OK

- \* Input searching word and press OK softkey.

Name abc  
↑ ← Mode OK

- \* Searching (send HTTP request and wait response)

Directory  
Searching...

- \* Display the result

No Data  
↑

(No Data)

Directory  
Failure  
↑

(Fail)

Phone Book Group  
>1. Arnold→Cecil  
↑ Previous Next OK

(Success)

By pressing the OK softkey, the phone sends the URL to the server

Directory  
Searching...

1. Arnold  
0175008100  
↑ Previous Next Dial

# LCD display for XML Phonebook (Entry)

- \* Press the Settings button



- \* Select the “Directory” menu.



- \* Select the “Remote Phonebook” menu



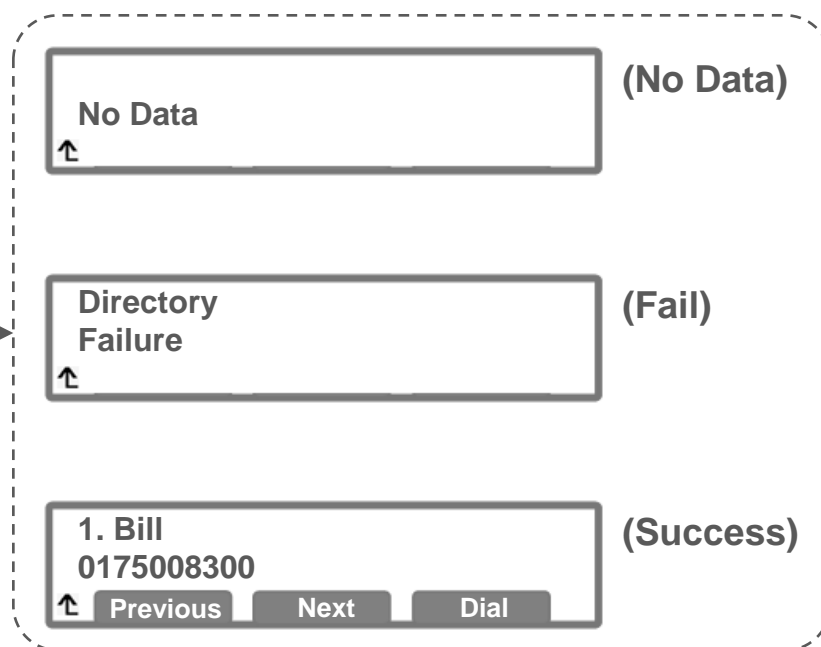
- \* Input searching word and press OK softkey.



- \* Searching (send HTTP request and wait response)



- \* Display the result



By pressing the Dial softkey, the phone dials the number directly.



# Dial Pad Mode

Dial Pad Button	Dial Pad Mode
1	@
2	A, B, C
3	D, E, F
4	G, H, I
5	J, K, L
6	M, N, O
7	P, Q, R, S
8	T, U, V
9	W, X, Y, Z
0	SPACE ( ' ' )
*	.
#	NOT USED

- The dial pad can be used to input characters for searching the phonebook
- The selection of input mode (upper, lower case, symbols) should not be used by the clients. In the search routine there is anyways no differentiation between capital letters and small letters, all results are listed (e.g. user inputs A, entries Axxxxxx as well as axxxxx are returned).

# Appendix. Diagram

