

# XML Phonebook Specification

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# 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 the following items: 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 LG-ERICSSON logo is at the bottom left of the menu.

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".

Below the "Phone Book List" section, there is a "Remote Phone Book URL" section. It features a "URL" label, a text input field with a green background, and a "Change" button.

At the bottom of the main content area, there is a link: [Return to the Site Map](#).

# 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`

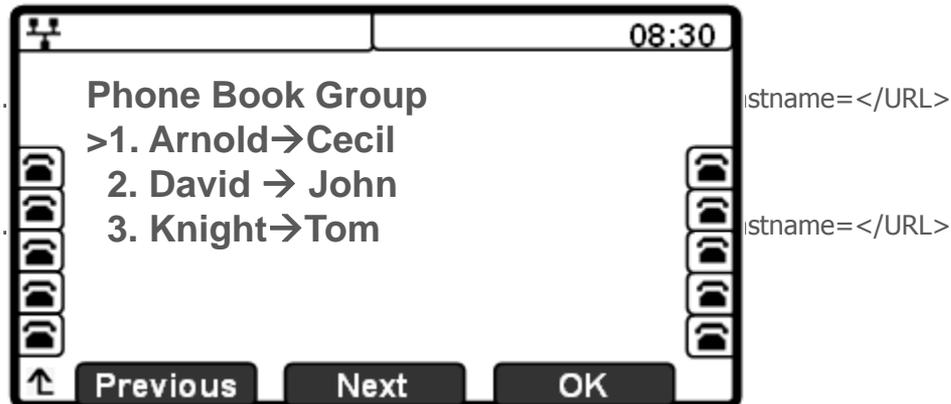
# XML Object (Menu)

\* 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

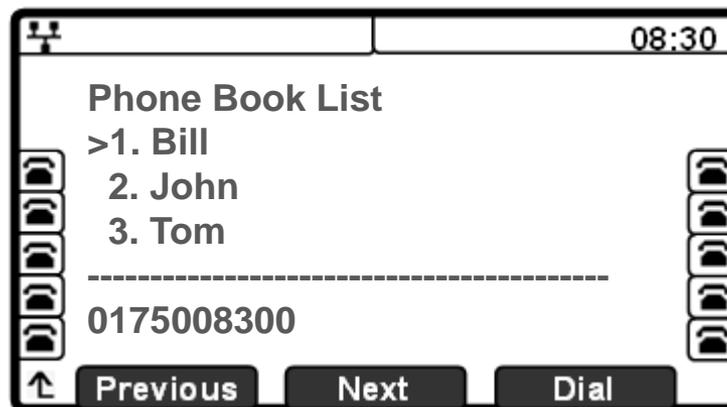
```
<LGIPPhoneDirectory>
  <Title>Directory title goes here</Title>
  <DirectoryEntry>
    <Name>The name of the directory entry</Name>
    <Telephone>The telephone number for the entry</Telephone>
  </DirectoryEntry>
</LGIPPhoneDirectory>
```

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

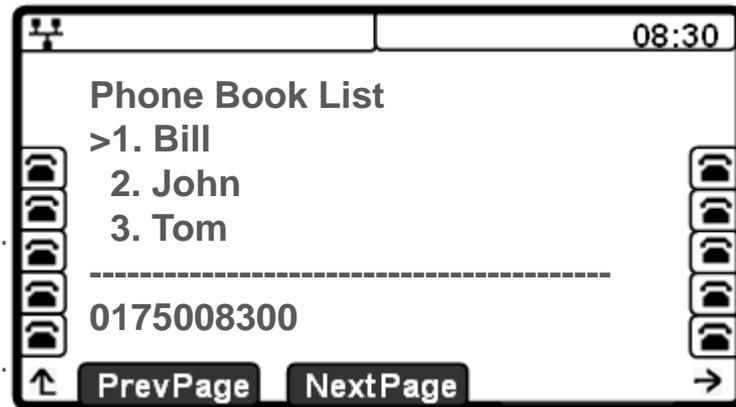
```
<LGIPPhoneDirectory>
  <MenuItem>
    <Item>previous-page</Item>
    <URL>The URL associated with the menu item</URL>
  </MenuItem>
  <MenuItem>
    <Item>next-page</Item>
    <URL>The URL associated with the menu item</URL>
  </MenuItem>
</LGIPPhoneDirectory>
```

## 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>
```



IP8815/  
IP8820/  
IP8830



IP8840

e=</URL>

e=</URL>

# LCD display for XML Phonebook (Menu)

\* 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



(No Data)

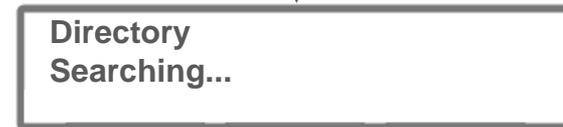


(Fail)



(Success)

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



# 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



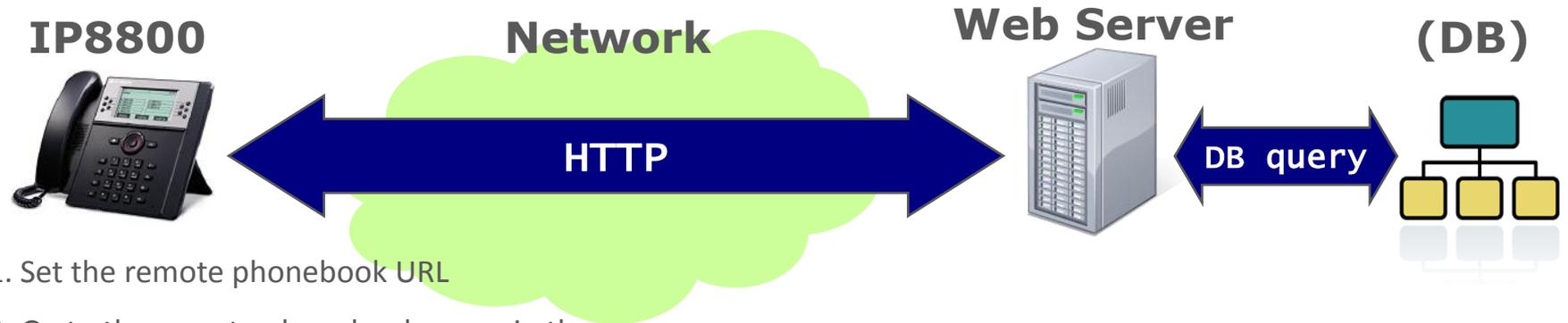
By pressing the Dial softkey, the phone dials the number directly.

# Dial Pad Mode

Dial Pad Button	Dial Pad Mode
1	@
2	<b>A, B, C</b>
3	<b>D, E, F</b>
4	<b>G, H, I</b>
5	<b>J, K, L</b>
6	<b>M, N, O</b>
7	<b>P, Q, R, S</b>
8	<b>T, U, V</b>
9	<b>W, X, Y, Z</b>
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



1. Set the remote phonebook URL
2. Go to the remote phonebook menu in the phone
3. Input the searching word and press the “OK” soft key.

(The phone displays the “Directory Searching...” and sends the HTTP request)

(The phone receives the web server’s HTTP response)

7. The phone parses the XML data and displays on the LCD.

## <Notice>

This is the role of server side. LG-Nortel doesn’t support nothing for implementing this

- (The web server receives the phone’s HTTP request)
4. The web server executes a web application
5. The web app. gets the phonebook data from DB (optional)
6. The web app. makes the XML data using the phonebook data got from DB
- (The web server sends the HTTP response including the XML data generated by the web app)



**LG - ERICSSON**

