

Fixed Solutions Division

Alcatel 5900 Communications TV Release 2.0

Product description

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1 SCOPE

The intension of this document is to give a description of Alcatel 5900 Communications TV solution.

OVERVIEW

The Alcatel 5900 Communications TV solution is the communication application integrated with the Alcatel 5900 IPTV Edition Platform.

The Communications TV solution combines the best of two worlds: the television for user-friendly graphical interface, and the phone for convenient communication. It allows a number voice communication services on the TV:

- Information and control of telephone settings on TV via remote control, such as call forwarding, caller identification restriction, etc.;
- Management of user address books on TV extended with a click-to-connect service;
- Viewing of the user call history – such as missed calls, incoming and outgoing call list, with call back service using the click-to-connect capability;
- Presentation of incoming calls identification info on TV.

The Communications TV solution connects together the Microsoft TV IPTV solution and the Alcatel 8626 Multimedia Phone Residential application.

2 DESCRIPTION

The Alcatel 5900 Communications TV solution allows a triple play user to extend his communication experience to the television. The first release of this application delivers three major features:

- **Incoming Call Notification:** By displaying the incoming call details, such as a phone number and a name, via the television the subscriber is notified when there is an incoming call. The actual call is, however, completed on a black phone, SIP phone or the PC.
- **Communication self-management:** The Communication TV application enables the television to be used as an additional device (as well as the phone and the PC) to manage the triple play subscriber's communication profile. Address book, Call history, supplementary services and other personal data can all be consulted through, and modified using the remote control.
 - **The address book** allows a user to create and manage a personal address book by adding, changing, and deleting contact records in the address book. The address book consists of groups, with each group containing one or more contacts.
 - **The call logs** allows the user to keep track of all the calls made or received using his communication service.
 - **The services page** allows the user to view the list of communication services and to view and modify the services.
 - **The personal info** lets the user manage personal information. This information may be shared when another user adds this user to their address book.
- **Click-to-Connect:** Call can be easily initiated from the television by consulting the address book or the call history. The actual telephone calls are completed over a more suitable terminal, i.e. the phone. With the Click-to-Connect capability, triple play subscribers can use the television for its user-friendly interface, and the phone for its convenient communication.

2.1 Incoming Call Notification

The Incoming Call Notification service allows displaying incoming call details on TV screen of the users subscribed to the Communications TV services.

At reception of an incoming call, the IPTV Notification service of the MMphoneR application checks if the called party is known as a Communication TV subscriber. Then a notification is generated and sent to the TV through the Notification extensibility Web service module of the IPTV Edition. Then the Communications TV user is notified by the visual indication on the TV screen (see Figure 1).

The actual call is completed on an appropriate terminal, i.e. black phone or PC.



Figure 1: Example of Incoming Call Notification appearing on the TV screen

2.2 Communication self-management

Communication profile management enables the TV set to be used (in addition to the phone and PC) to manage the triple play subscriber’s communication profile. User profile, address book, calls history and supplementary services can all be consulted and modified via the TV remote control.

The user interface is made for the maximum friendliness while the end user is only using the TV remote control. For example the end user can type in letters the same way, as he would do on his mobile phone.



Figure 2: Example of main entry menu of the self-management portal

2.2.1 Self-management features

2.2.1.1 Address book

The **Address Book** lets a user create and manage his or her personal address book by adding, changing and deleting contacts. The address book is made of groups, and each group may contain one or more contacts. The contacts that the user adds to his or her address book are visible and accessible only to that user.

The end user may add, edit and delete the group of contacts, which is being identified by a unique name. If the user wants he may add some extra textual description to the group as well

Concerning the contact information the add, edit and delete actions are available as well

The **Click-to-Connect** call can be done from the contact screen, which will result in the call setup between the user's default communication terminal¹ and the selected contact.

¹ The user's default communication terminal is a terminal registered by the user in the MMphoneR application.



Figure 3: Example of the contact information in the "Address Book" section

2.2.1.2 Call logs

The **Calls Logs** feature allows a user to keep track of all the calls made or received using his communication service represented by the MMPhoneR application.



Figure 4: Example of the "Call Logs" menu

The Calls Logs menu has four items:

- **All** - a list of all call records.
- **Incoming** - a list of all incoming call records.
- **Outgoing** - a list of all outgoing call records.
- **Settings** - manage the call log settings.

The **Click-to-Connect** call can be done from the call record screen, which will result in the call setup between the user's default communication terminal² and the number from the selected call record.

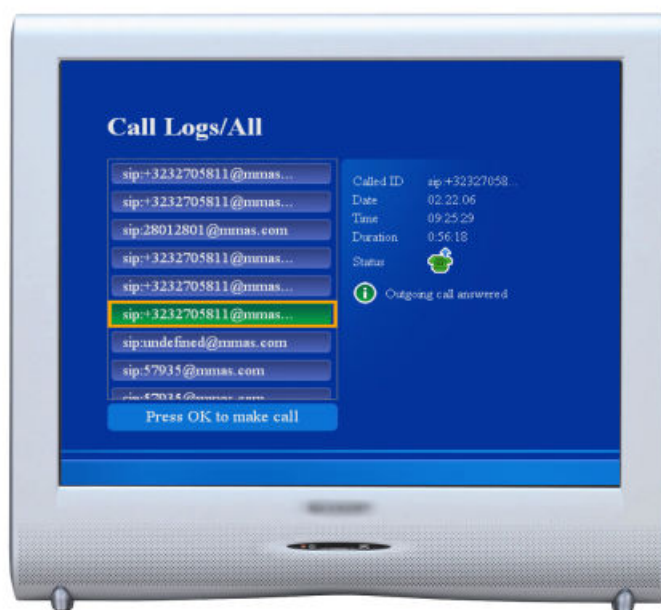


Figure 5: Example of the call record information in the "Call Logs" section

The user can configure the call log settings by setting the maximum number of call records to be stored and start and end date to filter out the call records by dates.

2.2.1.3 Services

The **Services** page allows the end user to view the communication services he/she is subscribed to, configure call forward options, and activate or disable the call line identification restriction (CLIR) and outgoing call barring (OCB) services.

The end user has access to the following items:

- **Subscriptions** gives an overview of the MMPhoneR services the user is subscribed to;

² The user's default communication terminal is a terminal registered by the user in the MMphoneR application.

- **Call Forwarding** allows managing the call diversion settings. The following forwarding services can be made active: **Unconditional, On Busy, On No Reply, Unregistered, to Fixed Announcement**.
- **Privacy** item allows the end user to assign some restrictions to his communication services. The user may ask to hide his identity during the call via **Calling Line Identity restriction (CLIR)** or to restrict calling to some destination using **Outgoing Call Barring (OCB)**.



Figure 6: Example of the "Services" menu



Figure 7: Example of the Call forwarding on No reply settings in the “Services” section

2.2.1.4 Personal info/settings

The **Personal Info** page lets the end user manage personal information. This information is shared when another user adds this user to his or her address book.



Figure 8: Example of the miscellaneous info in the “Personal info” section

The following information is available to the user from his communication application (MMPhoneR):

- **Contact Info** – the user’s general information consisting of the **User Identity, Display Name, Phone number, e-mail address**. The **User Identity** is used to make calls;
- **Address** is the primary home address of the user.

Miscellaneous consists of the user’s primary **language** and the **picture** of the user that is being used during the multimedia call setup when appropriate.

2.2.1.5 Portal settings

The **Portal Settings** menu allows user to change some of his current portal settings as well as to refresh all information presented in items described previously:

- **Refresh** allows to re-synchronize all user info again with the MMPhoneR application;
- **Change language** lets the end user to change the default language of the self-management;
- **Logout** – logs out the current user from the applications and lets login with another user identity.



Figure 9: Example of “Portal settings” screen

2.3 Network infrastructure

Figure 10 shows an overview of the involved network components.

Managing user profiles, address book, supplementary services and call logs is enabled via Remote Desktop Protocol (RDP) (interface to IPTV Edition) in order to display information.

The Simple Object Access Protocol (SOAP) (XML/HTTP) is used interconnect different services IPTV and communication services:

- To send a notification to the television (CLID-on-TV);
- To manage user profiles, address book, supplementary services and call logs via Remote Desktop Protocol (RDP) (interface to IPTV Edition);
- To signal a call setup from the television.

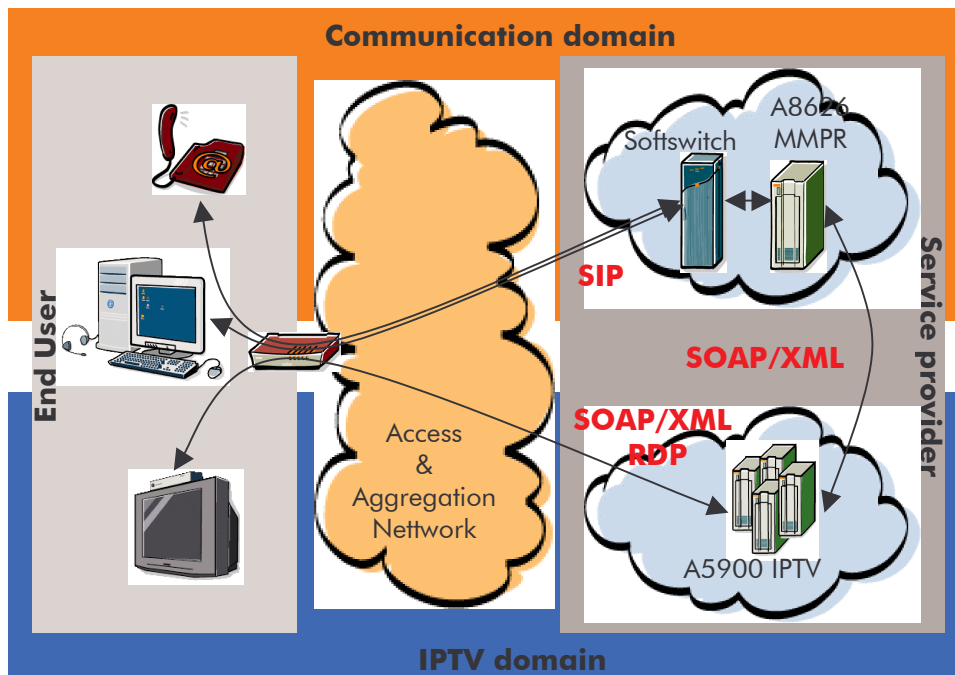


Figure 10: Overview of the solution network infrastructure.

3 CONCLUSION

The Alcatel 5900 Communications TV solution enables service providers to extend communication experience to the television. The Communications TV solution improves the Triple Play user experience, by allowing managing and control voice services via the TV set.

This application provides a connected home through connected service platforms. The black phone, mobile phone and television are no longer isolated devices with dedicated service platforms.

With the Communications TV solution only one user communication profile, one presence, one address book, etc. are maintained.