

# **Contents**

Introduction	3
About Ascom	3
About Ericsson-LG Enterprise	3
Site Information	4
Verification site	4
Participants	4
Test Topology	4
Summary	5
General conclusions	5
Compatibility information	5
Test Results6	6
Test overview	ĉ
Known limitations	7
Support7	7
Appendix A: Test Configurations	В
Ericsson-LG Enterprise iPECS UCP configuration	3
Ascom i62 configuration	2
Appendix B: Detailed Verification Records16	6
Document History10	6

### Introduction

This interoperability report describes test results and optimal configuration of Ascom i62 towards the Ericsson-LG Enterprise iPECS UCP. The document should be used in conjunction with configuration guide(s) from Ericsson-LG Enterprise and Ascom.

### About Ascom

Ascom (www.ascom.com) is a global solutions provider focused on healthcare ICT and mobile workflow solutions. The vision of Ascom is to close digital information gaps allowing for the best possible decisions - anytime and anywhere. Ascom's mission is to provide mission-critical, real-time solutions for highly mobile, ad hoc, and time-sensitive environments. Ascom uses its unique product and solutions portfolio and software architecture capabilities to devise integration and mobilization solutions that provide truly smooth, complete and efficient workflows for healthcare as well as for industry and retail sectors.

Ascom is headquartered in Baar (Switzerland), has operating businesses in 18 countries and employs around 1,300 people worldwide. Ascom registered shares (ASCN) are listed on the SIX Swiss Exchange in Zurich.

# About Ericsson-LG Enterprise

"We create innovation in business communications."

Ericsson-LG Enterprise is a leading provider of business communications solution with over 40 years of experience in the global market. Bringing its premium brand 'iPECS' in the market, Ericsson-LG Enterprise delivers a complete product lineup for Cloud and Unified Communications and Collaboration solutions from small to large-sized businesses, and establishes its strong position through advanced technology and diverse reference sites. Continuing our efforts, we aim to build the iPECS brand as the world's top-most enterprise communication solution provider.

Website: http://www.ericssonlg-enterprise.com

## Site Information

### Verification site

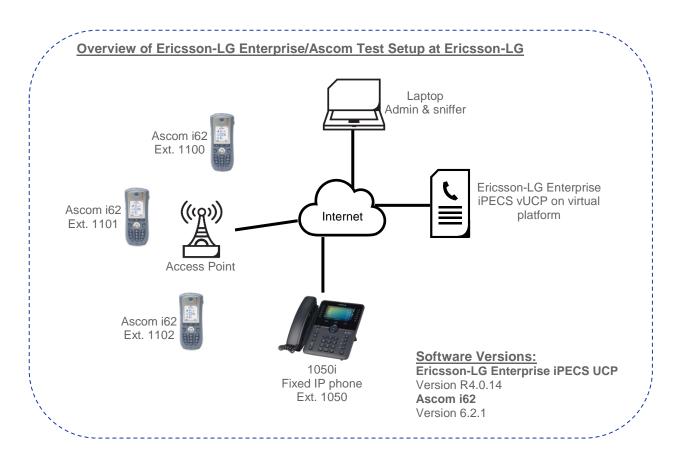
Ericsson-LG Enterprise

Seoul, Korea

### **Participants**

Hangsuk Cho (Ericsson-LG Enterprise, KR)

# Test Topology



## **Summary**

### General conclusions

Ascom interoperability verification produced good results towards Ericsson-LG Enterprise iPECS UCP version R4.0.14 with a few exceptions, refer to the "**Known Limitations**" section on page 7.

Ascom i62 handsets were configured to register at iPECS UCP using endpoint numbers. The codec of choice for these tests was G.711u/20ms, while DTMF signaling was transmitted according RFC 2833 or INFO message. Parameter settings are elaborated upon in the "**Appendix A: Test Configurations**" on page 8 for each platform respectively.

### Compatibility information

Ericsson-LG Enterprise iPECS UCP/eMG Integration - Ascom i62

- Ericsson-LG Enterprise iPECS UCP/eMG version R4.0.14
- Ascom i62, 6.2.1

Signaling Protocol:

SIP

Ericsson-LG Enterprise iPECS vUCP (results also valid for UCP100/600/2400 and eMG80/100/800):

 Settings are based on "Ascom VoIP Gateway: Installation and Operation Manual" (TD 92326GB), pp. 62-100

#### Ascom i62:

- "Endpoint ID" and "Endpoint Number" corresponds to name and number in the user object
- Default SIP settings

## **Test Results**

### Test overview

Test cases in nearly all areas with regard to Ascom i62 and Ericsson-LG Enterprise iPECS UCP passed successfully. Overall, the conclusion is that the SIP integration of Ascom i62 with UCP is very good.

Queries about licensing should be directed to Ericsson-LG Enterprise.

Please also see "Appendix B: Detailed Verification Records" for further details

High Level Functionality	Result R4.0.14
Basic Call	OK
DTMF	OK
Hold, Retrieve, Enquiry and Brokering	OK
Attended Transfer	OK
Blind-transfer	OK
Call Forward Unconditional	OK
Call Forward No Reply	OK
Call Forward Busy	OK
Call Waiting	OK
Message Waiting Indication	OK
Do Not Disturb	OK
Calling Line/Name Identification	OK
Connected Line/Name Identification	OK

### **Known limitations**

- Since i62 sends REGISTER message without any display name but INVITE message includes From & Contact display name with Endpoint ID, "Do Not Overwrite Station Name" in SIP Phone Attributes(211) menu should be set to ON or OFF(INV).
- i62 rejects a SIP call over TCP with "404 Not Found" when listening port of i62 is not set to the source TCP port of i62, since iPECS sends SIP message with URI of the connected source port but i62 expects URI in Contact header which i62 includes in REGISTER message.
- i62 sends DTMF only after 200 OK received. Therefore, "Pre Audio Connection For DTMF" in SIP Phone Attributes(211) menu should be set to 200 OK for voicemail access with DTMF.
- INVITE with Replaces header is sent by PBX to update the caller information before answering the blind transfer or unscreened transfer, but i62 rejects INVITE with Replaces header with "481 Call Leg/Transaction Does Not Exist" and a transferred call is disconnected. Therefore, "INVITE(Replace) Usage" in SIP Phone Attributes(211) menu should be set to OFF.
- Since held i62 cannot hold a call, held i62 cannot make a new call before hanging up a held call. This is a PBX issue and per design.
- Being a SIP phone, the i62 cannot activate Call Completion Busy Subscriber(CCBS). This is a PBX issue and per design.

For additional information regarding the known limitations please contact <a href="mailto:interop@ascom.com">interop@ascom.com</a> or <a href="mailto:support@ascom.com">support@ascom.com</a>.

For detailed verification results, refer to Appendix B: Detailed Verification Records.

## **Support**

Product and sales support for Ascom and Ericsson-LG products is obtained through respective companies local supplier.

Technical support for the Ascom i62 wireless handsets can be obtained through the local Ascom supplier or Ascom global technical support:

• Email: <a href="mailto:support@ascom.com">support@ascom.com</a>

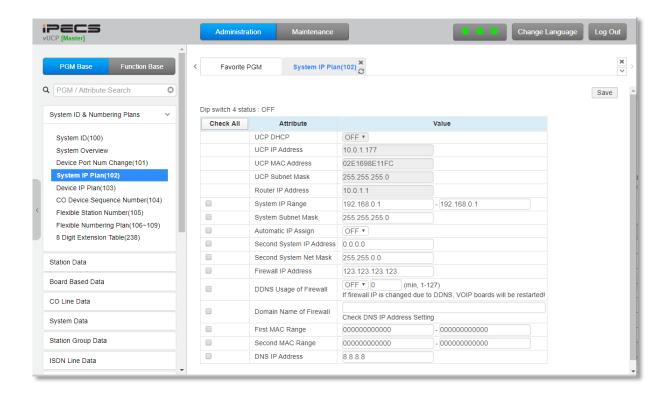
Help desk: +46 31 559450

# Appendix A: Test Configurations

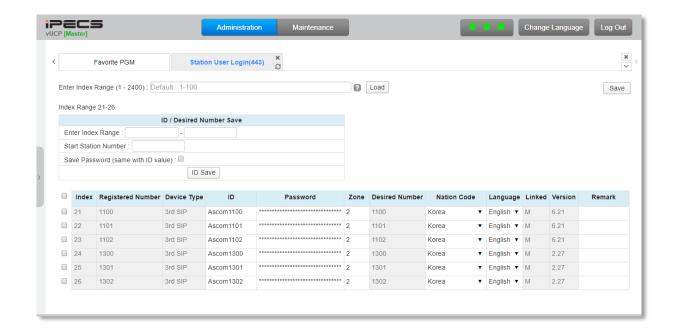
### Ericsson-LG Enterprise iPECS UCP configuration

Please find the screen shots reflecting the management interface and some aspects of setting up the PBX application on iPECS UCP.

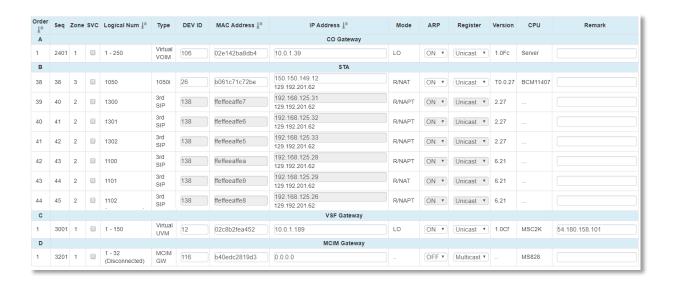
System ID & Numbering Plans > System IP Plan(102)



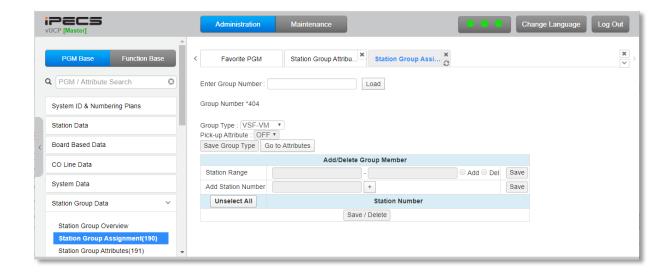
#### Device Login > Station User Login(443)



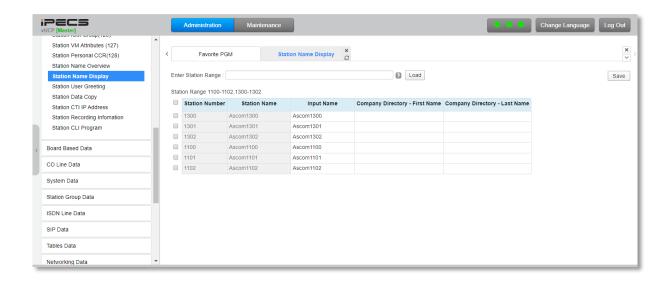
#### System ID & Numbering Plans > Device IP Plan(103)



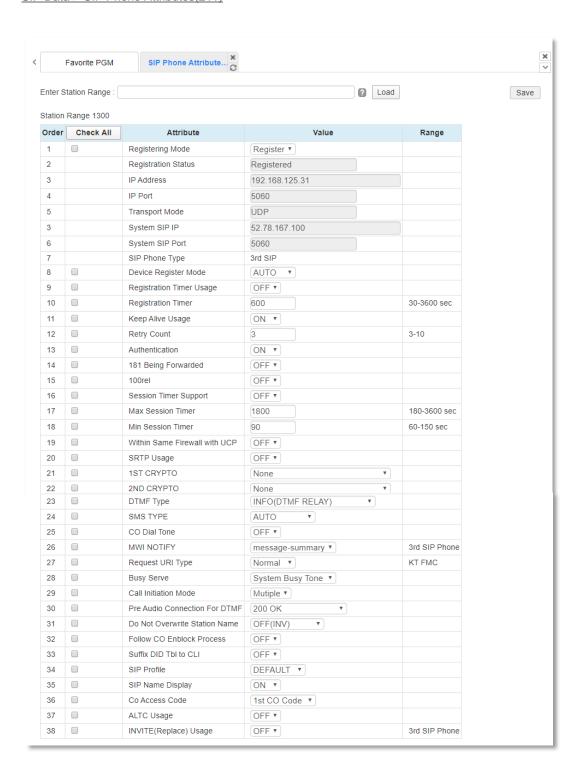
#### Station Group Data > Station Group Assignment(190)



#### Station Data > Station Name Display



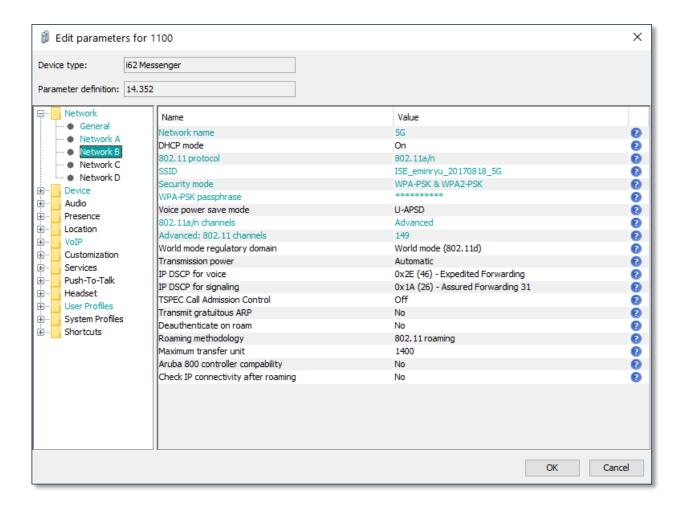
#### SIP Data > SIP Phone Attributes(211)

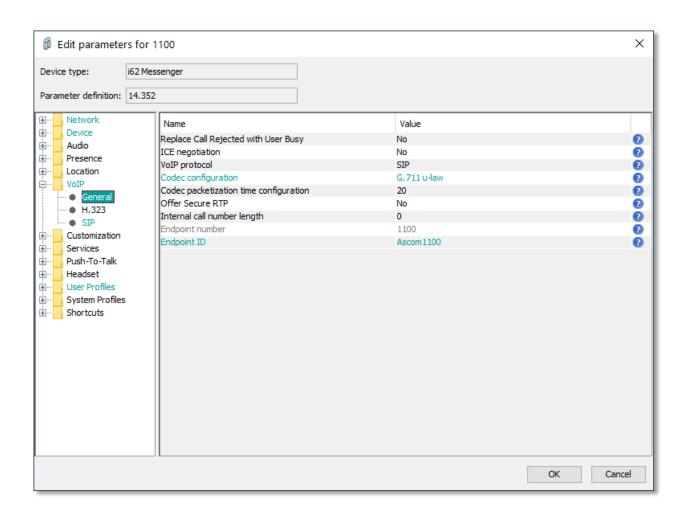


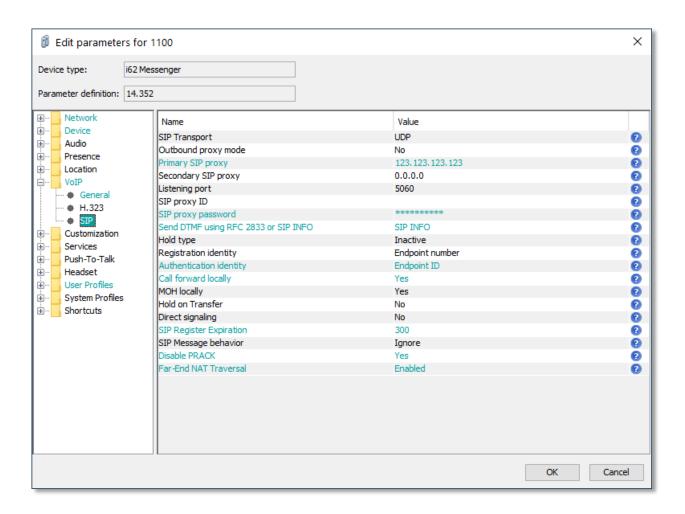
Please refer to Ericsson-LG Enterprise's documentation for further details about iPECS UCP configuration and licensing.

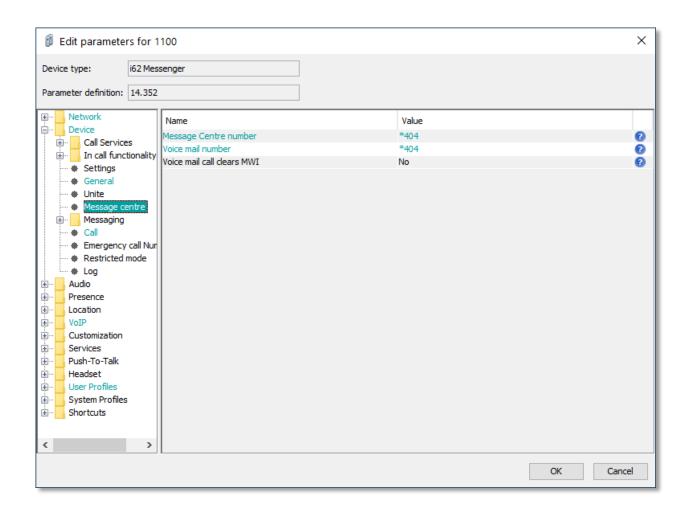
## Ascom i62 configuration

#### Ascom i62 WiFi network settings









# Appendix B: Detailed Verification Records

### Ascom i62 with iPECS UCP/eMG R4.0.14

Pass	61
Fail	1
See Comments	19
Not Tested	29
Total	110

Refer to the attached Excel file for detailed verification results.

Refer to the verification specification for explicit information regarding each verification case.

The specification can be found here (requires login):

https://www.ascom-ws.com/AscomPartnerWeb/en/startpage/Sales-tools/Interoperability/Templates/

# **Document History**

Rev	Date	Author	Description
PA1	2020-05-12	HS. Cho Draft version	
PA2	2020-05-22	SEMW	New cover page, minor adjustments after internal review
RevA	2020-05-25	SEMW	Final version