

## **BEYERTONE**

musiphone Duo

with

## **SIEMENS**

**HiPath 4000 V3.0**

**Test Status: Released**  
**Release Date: December 3rd, 2007**

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## History of Change

<u>Date</u>	<u>Description</u>	<u>Name</u>
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## 1 Overview

### 1.1 Test Object

#### 1.1.1 Basis Equipment

**Test System:** HiPath 4000 CPCI  
HiPath 4000 V3.0 R7.4..20

#### 1.1.2 Musiphone Duo

**Certification:** Test of interface functionality against failures and of the features of the announcement application

**Test Equipment:** musiphone Duo

**Software Release:** 2.1 - 1.3N

**HW / FW Release:** 09-2007

**Manufacturer:** BEYERTONE AG, Max-Volmer-Straße 29, D – 40724 Hilden

**Description:** Announcement / MusicOnHold application for usage on HiPath 4000 analog ports.

**Documentation:** Installation manual, User manual

**Test Network:** Musiphone duo is connected via:  
- analog extension

**Test Configuration:**

## 1.2 Test Strategy

The main goal of this testing is to test:

- the main functionality of this component within the system as a whole.
- the external interfaces,
- the system interoperability between the Musiphone Duo and the Siemens HiPath 4000.

The external interfaces are analogue

### 1.2.1 Test Intensity

Scopes of the tests are to execute / to verify the solution performs within the limits of the system requirements, targeting the end product. To accomplish this, feature and solution based test cases are created, inspected, and executed under a real system environment (mirroring as close as possible real customer's environment).

**Note:**

The testing of the product with regard to compliance to requirements for Product Safety, EMV, Network Access Interfaces and Radiation Protection were not performed. Siemens AG therefore assumes no responsibility for the compliance to these requirements.

### 1.2.2 Measuring / Test Instruments

## 1.3 Realisation Data

**Test Preparation:** October 2007

**Test Duration:** October 9 - 12, 2007

**Test Location:** Siemens Brussels  
Demeurslaan 134  
1654 Huizingen  
Test LAB

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## **1.4 Test Results Summary**

Musiphone Duo is ready to be used with Siemens HiPath 4000

### **1.4.1 Problems**

1. None

### **1.4.2 Restrictions**

1. none

### **1.4.3 Remarks**

1. None

## **2 Configuration**

### **2.1 Musiphone Duo**

#### **2.1.1 Configuration Advices**

See detailed installation guide that is delivered with each equipment.

#### **2.1.2 3.1 music on hold**

For HiPath 4000 connect pins 1 and 6 (RJ12) of the musiphone Duo port for „moh“.

### **2.2 HiPath 4000**

- HW-Version: HiPath 4000 CPCI
- SW-Version: HiPath 4000 V3.0 - R7.4..20

#### **2.2.1 Configuration Advices**

##### **2.2.1.1 CSTA Link**

- CSTA is not used

##### **2.2.1.2 Devices**

- Phones
  - Optipoint phones
  - ***Analogue phones***

## ***2.3 Configuration Block Diagram***

Musiphone Duo is connected to the HiPath 4000 via analogue positions (SLMA)



### 3 Test Results in Detail

#### 3.1 Functionality of Announcement Device

No	Test Procedure	Expected Result	Result
1.	Power-on and Startup within 1 second (music 10 seconds)	Startup is successful. Configuration is successful and in case there already was a stored configuration it still exists	OK
2.	Setting parameters for announcement function	Setting parameters via DTMF controlled menu is possible	OK
3.	Recording of an announcement on an „announcement before answering“ analog port	Recording is possible	OK
4.	Music input via USB memory stick	Input is possible	OK

### 3.2 Music On Hold via SLMA

No	Test Procedure	Expected Result	Result
5.	A call is put on hold within the system	Asynchronous music is heard by the held party	OK

### 3.3 Announcement before answering via SLMA

No	Test Procedure	Expected Result	Result
6.	A Call is forwarded to musiphone	musiphone accepts the call with an announcement.	OK
7.	A Call is forwarded to musiphone, announcement is heard	After announcement the call is ended.	OK
8.	A Call is forwarded to musiphone, announcement is heard	After announcement the call is routed to a defined internal party.	OK
9.	An internal Call is forwarded to musiphone, announcement is heard	After announcement the call is routed to a defined external party.	OK
10.	musiphone is set to night mode	A different message is heard and a different extension is dialled after the announcement	OK

### 3.4 Reliability

No	Test Procedure	Expected Result	Result
11.	musiphone restart (Power on)	The musiphone comes back to work without manual interferences	OK
12.	music on hold port disconnected and connected again	The music on hold comes back to work without manual interferences	OK
13.	HiPath port restart	System Recovery, musiphone functionality comes back to work without manual interferences	OK

### **3.5 Service and Maintenance**

The Misiphone Duo system will be mainly maintained / administrated by Service Engineers from Beyertone partners.

#### **3.5.1 Backup Recovery**

<b>No</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Result</b>
1.	Backup system configuration		NA
2.	Restore system configuration		NA
3.	Full-Backup		NA
4.	Emergency Restore		NA

#### **3.5.2 Troubleshooting**

#### **3.5.3 Service**

- Replacement of faulty equipment under the terms of configuration and replacement-procedures
- Restart Behaviour:  
The whole system comes back to work without manual interferences.

### 3.6 Remarks

**Meanings of Abbreviations:**

OK	Test case successful
NOK	Test case NOT successful
NA	Test case not applicable
NP	Test case not processed
NS	Situation not supplied
N *X	Error / restriction with description
* X	Remark to Functionality

## **4 Configuration Data**

No special configuration required.

### **4.1 MoH on SLMA**

EINR-SSC:1-2-109-4,EXTANS,BITTEWAR,0;

## 5 Confirmation

Testing personnel confirms that the tests Nr. 1 until Nr. 13 were performed and that the results were as described in this document.

Testing personnel confirms test duration: 09/10/2007 – 12/10/2007

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Michael Peremans

TE-SYSTEMS

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