



Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Dasan Electron Headsets from JPL Europe with Avaya 3900 Series Digital Deskphones using a PSD-30F/C-PLX08 Cord – Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning the Dasan Electron headsets using a PSD-30F/C-PLX08 cord from JPL Europe with the 3900 Series Digital Deskphones from Avaya to ensure full interoperability.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps for provisioning Dasan Electron headsets from JPL Europe using a PSD-30F/C-PLX08 cord with Avaya 3900 Series Digital Deskphones. JPL Europe design and develop professional headsets for the Corporate, Financial, Health, Government, Educational, Industrial, Hotel & Hospitality and Contact Centre market sectors.

2. General Test Approach and Test Results

The interoperability compliance testing evaluates the ability for the combination of headset and chord from JPL Europe to connect to the Avaya 3900 Series Digital Deskphones and allow users of the deskphone to speak and listen when a call is either made or received, i.e., verifying an audio path in both directions. The type of calls made included calls to voicemail, to local stations, and to the PSTN.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya's formal testing and Declaration of Conformity is provided only on the headsets/handsets that carry the Avaya brand or logo. Avaya may conduct testing of non-Avaya headset/handset to determine interoperability with Avaya phones. However, Avaya does not conduct the testing of non-Avaya headsets/handsets for: Acoustic Pressure, Safety, Hearing Aid Compliance, EMC regulations, or any other tests to ensure conformity with safety, audio quality, long-term reliability or any regulation requirements. As a result, Avaya makes no representations whether a particular non-Avaya headset will work with Avaya's telephones or with a different generation of the same Avaya telephone.

Since there is no industry standard for handset interfaces, different manufacturers utilize different handset/headset interfaces with their telephones. Therefore, any claim made by a headset vendor that its product is compatible with Avaya telephones does not equate to a guarantee that the headset will provide adequate safety protection or audio quality.

2.1. Interoperability Compliance Testing

The interoperability compliance testing includes testing on the latest version of Avaya 3900 Series Digital Deskphones. The following three headsets from JPL Europe were tested and these are sold using different names depending on the country. All of these names are included in each of the bullet points below.

- DH-027T (JPL-601PM, JPL-601PB, JPL-602PM, JPL-602PB) (Agent-500, Agent-600, Agent-700 and Agent-800) series.
- DH-031T (Radius-2000, Radius-2100, Radius-2200, Radius-2300) headsets, which will be referred to as [DH-031T (Radius Series) headsets].
- DH-035T headsets.

The following series of Avaya telephones are tested against.

Hardware

- Avaya M3904

Firmware

Core FW 024 Flash FW 094

RJ-9 Leads/Cords used.

- PSD-30F/C-PLX08 (Standard)
- DA-22C

2.2. Test Results

All compliance test cases passed successfully. The following observation was noted.

- No configuration changes were made on the individual telephone. Whatever default settings for the headset were in place was used to test with.

2.3. Support

Support from Avaya is available by visiting the website <http://support.avaya.com>. Support from JPL-Europe is available at:

JPL Europe GmbH
Dieselstrasse 34
D-84056 Rottenburg
+ 49(0)8781 2014130
info@jpl-europe.eu
www.jpl-headsets.com

3. Reference Configuration

Figure 1 shows the network topology during compliance testing. The Dasan Electron headsets are connected, via the headset port using a PSD-30F/C-PLX08 RJ-9 modular plug supplied by JPL Europe, to the 3904 Digital Deskphone.

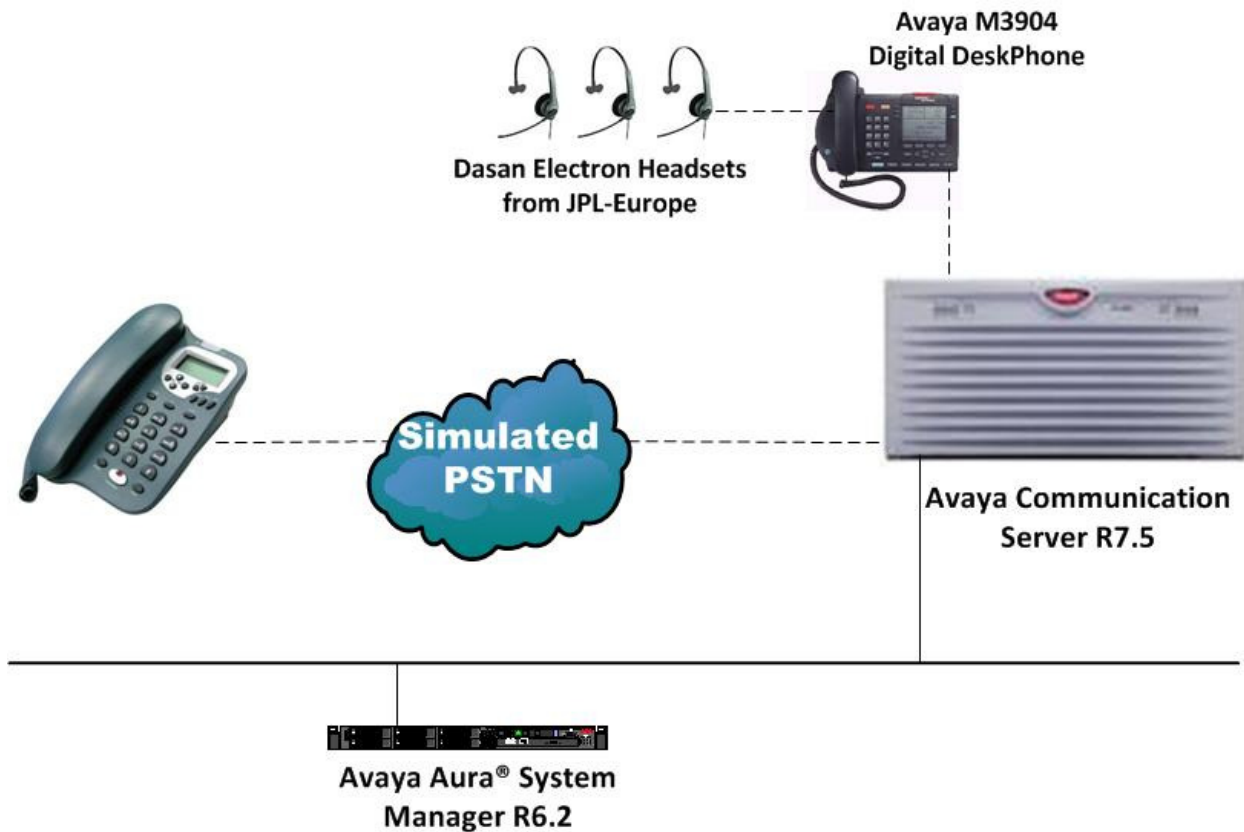


Figure 1: Network Solution of the Dasan Electron Headsets from JPL Europe connecting to Avaya 3900 Series Digital Deskphones via PSD-30F/C-PLX08 RJ9 cord

4. Equipment and Software Validated

The following equipment and software was used for the compliance test.

Equipment/Software	Version/Release
Avaya Communication Server 1000E running on an Avaya CPPM	R7.5
Avaya 3904 Digital Deskphone	Core FW 024 Flash FW 094
JPL Europe Headset DH-027T <ul style="list-style-type: none">(JPL-601PM, JPL-601PB, JPL-602PM, JPL-602PB)(Agent-500, Agent-600, Agent-700 and Agent-800)	N/A
JPL Europe Headset DH-031T (Radius-2000, Radius-2100, Radius-2200, Radius-2300)	N/A
JPL Europe Headset DH-035T	N/A
JPL Europe RJ-9 Cords <ul style="list-style-type: none">PSD-30F C-PLX08 (Standard)DA-22C	N/A

5. Configure Avaya Communication Server 1000E

It is assumed that a fully functioning Avaya Communication Server 1000E (CS1000E) is in place with the necessary licensing. For further information on the configuration of CS1000E please see **Section 9** of these Application Notes.

5.1. Configuring Avaya 3900 Series Digital Deskphones

It is assumed that the 3900 Series Digital Deskphones are all configured. For further information on how to configure these deskphones please see **Section 9** of these Application Notes.

Note: An example of a configured 3904 Digital Deskphone is included in the **Appendix** of these Application Notes.

6. Configure Dasan Electron Headsets

There are several RJ-9 cords available to connect the Dasan Electron headsets to the Avaya deskphones depending on the deskphone in question. For the 3900 Series Digital Deskphones the suggested cord for use is the PSD-30F/C-PLX08 Cord.

6.1. Connecting to Avaya M3900 Series Telephones

In connecting the Dasan Electron headsets to the 3900 Series Digital Deskphones there suggested cord to use is the PSD-30F/C-PLX08 cord. The PSD-30F/C-PLX08 is a straight cord with no amplifier. The DA-22C offers similar results as the PSD-30F/C-PLX08, so either cord can be used.

7. Verification Steps

The following steps can be taken to ensure that connections between the Dasan Electron headsets and 3900 Series Digital Deskphone are achieved.

1. When the headset is connected to the telephone set press the HEADSET key on the telephone set. The headset LED should light up and dial tone should be heard.
2. To answer a call press the headset key when the telephone is ringing again the headset LED should be lit.

8. Conclusion

These Application Notes outline the steps necessary to configure the Dasan Electron headsets from JPL Europe using a DA-30 cord to allow full interoperability with Avaya 3900 Series Digital Deskphones. Please refer to **Section 2.2** of these Application Notes for test results and observations.

9. Additional References

This section references documentation relevant to these Application Notes. Product documentation for Avaya products may be found at <http://support.avaya.com>

- [1] *Software Input Reference Administration Avaya Communication Server 1000, Release 7.5*; Document No. NN43001-611_05.02
- [2] *Avaya 3900 Series Digital Deskphones User Guide*, Document number NN42200-110

Dasan Electron headset product documentation can be found at <http://www.jpl-headsets.com>

Appendix

Avaya 3904 Digital Deskphone

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DES M3904
TN 004 0 07 00 VIRTUAL
TYPE 3904
CDEN 8D
CTYP XDLC
CUST 0
MRT
ERL 0
FDN 7000
TGAR 0
LDN NO
NCOS 0
SGRP 0
RNPG 0
SCI 0
SSU
XLST
SCPW
SFLT NO
CAC_CIS 3
CAC_MFC 0
CLS UNR FBD WTA LPR MTD FND HTD TDD HFD GRD CRPD STSD
MWD LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
POD SLKD CCSD SWD LND CNDD
CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBF
ICDD CDMD LLCN MCTD CLBD AUTU
GPUD DPUD DNDD CFXD ARHD FITD CLTD ASCD
CPFA CPTA ABDD CFHD FICD NAID DNAA RDLA BUZZ AGRD MOAD
UDI RCC HBTB AHD IPND DDGA NAMA MIND PRSD NRWD NRCD NROD
DRDD EXRO
USMD USRD ULAD CCBD RTDD RBDD RBHD PGND OCBF FLXD FTTC DNDY DNO3 MCBN
FDSB NOVD CDMR PRED RECD MCDD T87D SBMD
PKCH CROD ELCD
CPND_LANG ENG
HUNT
PLEV 02
PUID
UPWD
DANI NO
AST
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0
MLNG ENG
DNDR 0
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KEY	00	SCR 8000 0	MARP
		ANIE 0	
	01	SCR 8001 0	MARP
		ANIE 0	
	02		
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	17	TRN	
	18	AO6	
	19	CFW 16	
	20	RGA	
	21	PRK	
	22	RNP	
	23		
	24	PRS	
	25	CHG	
	26	CPN	
	27	CLT	
	28	RLT	
	29		
	30		
	31		

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