

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Automatic Telephone System**

with type designation(s)

OmniPCXOffice;OmniPCXEnterprise

Issued to

ALE International**Colombes Hauts de Seine, France**

is found to comply with

DNV GL rules for classification – Ships and offshore units**DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations****General requirements for electromagnetic compatibility for all electrical and electronic ship's equipment (IMO Res. A.813(19))****IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids****Application :****See page 2****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-06-29**.Issued at **Høvik** on **2016-06-30**DNV GL local station: **Le Havre**Approval Engineer: **Steinar Kristensen**for **DNV GL**

Jan Tore Grimsrud
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

OmniPCX Office & OmniPCX Enterprise automatic telephone systems comprises the following modules ¹⁾:

Hardware:

Equipment type	Description	Module
Main Units	Server OmniPCX Office, 3U Large mains	OmniPCX Office LARGE
	Server OmniPCX Office, 2U Medium	OmniPCX Office Medium
	Server OmniPCX Enterprise, 3U Large Mains	OmniPCX Enterprise Large
Modules for servers	Main Voice Server Units	CS2 or Power CPU
	Gateway and Expansion Driver Units	GD-3 or Power MEX
	Interface unit for the Digital system sets	UAI 4 or UAI 8 or UAI 16-1
	Interface for analogue sets to be used in Noisy Environment	SLI 4-2 or SLI 8-2 or SLI16-2
	Interface unit (LAN switch) for IP phone sets	SLANX4 or LANX8 or LANX16-2
	Power-over-Ethernet (POE) interface unit (LAN switch) for IP phone sets	OS6250P24 or Moxa EDS-P510
	MIX board	MIX 4/8/4-2 or MIX 4/4/8-2
Telephone models ²⁾	DeskPhones (alternatives)	4008, 4018, 4019, 4020, 4028, 4029, 4038, 4039, 4068, 8018, 8028, 8029, 8038, 8039, 8068

All units listed above are to be installed in a protected environment, i.e. indoor.

Software:

SW Version OmniPCX Office R10.2.x
SW Version OmniPCX Enterprise R11.2.x

Application/Limitation

1. The systems can be delivered with different configurations of the different Boards: "UAI", "SLI", "LAN switches" and "MIX". Any combination of the Boards shall be identified with a unique System Reference as described in ch. 1.1 of the "Alcatel, Design and operation document for Alcatel-Lucent OmniPCXOffice/Enterprise in Maritime Environments". This identification shall be fixed at the delivered system.
2. System shall operate on a dedicated IP network/LAN, consisting of components listed in this certificate.
Interconnection to other networks is subject to separate case-by-case approval.

¹⁾ Actual configuration may vary based on requirements for individual installations. Only modules listed in certificate are approved for installation.

²⁾ 40x8 and 80x8 IP phones are to be powered via Ethernet (PoE- Power over Ethernet). External power adaptor is not to be used.

Job Id: **262.1-002641-4**
Certificate No: **TAA00000FW**

Tests carried out

- Environmental tests: IEC 60945 (2002)³⁾
- Performance testing: Functional tests according to DNV Type Approval program 848.25

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

A retention survey is to be performed at least once every second year, and again upon renewal of this certificate. The scope of the retention/renewal survey is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

Manufacturing site

Flextronics Romania S.R.L
Calea Torontalului DN6 , km 5.7
RO-300000 Timisoara , Romania

Type Approval documentation

DNV GL No	Document Id.	Rev.	Description
70	8AL 90605USAA	Ed.05	Manual: Alcatel, Design and operation document for Alcatel-Lucent OmniPCXOffice/Enterprise in Maritime Environments
64	1-9284/15-01-03	2016-02-03	Report: CETECOM, Environmental test report for 8018 DeskPhone
63	1-9284/15-01-08	2015-12-04	Report: CETECOM, EMC test report for 8018 DeskPhone
54	1-6166/13-01-02-C	2014-02-20	Report: CETECOM, Environmental test report for 8029 and 8039 Premium DeskPhones
53	1-6039/13-01-05-A	2014-02-20	Report: CETECOM, Environmental test report for 8028, 8038 and 8068 Premium DeskPhones
52	1-6040/13-01-15	2014-01-14	Report: CETECOM, EMC test report for 8039 Premium DeskPhone
51	1-6040/13-01-13	2014-01-14	Report: CETECOM, EMC test report for 8029 Premium DeskPhone
50	1-6039/13-01-12	2014-02-11	Report: CETECOM, EMC test report for 8068 Premium DeskPhone
49	1-6039/13-01-10	2014-01-14	Report: CETECOM, EMC test report for 8038 Premium DeskPhone
48	1-6039/13-01-08	2014-01-14	Report: CETECOM, EMC test report for 8028 Premium DeskPhone
46	8AL90894ENABed 01-1438		Manual: Alcatel, User Manual for 80xx Premium Deskphones
43	8AL91027USAF	Ed. 01	Manual: Alcatel, OmniPCX Enterprise, Installation Manual Release 11.2

³⁾ Power-over-Ethernet (PoE) switch OS6250P24 has been tested according DNV Std. for Certification 2.4 (2006), Moxa EDS-P510 has been tested according to GL Guidelines for Performance of Type Approvals VI-7-2 (2003)

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DNV GL No	Document Id.	Rev.	Description
41	3EH21120USAA	Ed. 01	Manual: Alcatel, OmniPCX Office- Installation Manual Release 10.2
38	172106-CB-1-a		EMC Test Report: GYL No. 172106-CB-1-a "Omni PCX Enterprise OXE Small & OXE Large cabinets 230V"
36	243106-CB-1-a		EMC Test Report: GYL No. 243106-CB-1-a "SLI-2 board in OmniPCX Enterprise Large and Small"
35	1-4831/12-01-03-A		Environmental Test Report: CETECOM No. 1-4831/12-01-03-A according to IEC 60945/60068
34	1-4321/12-01-02		EMC Test Report: CETECOM No. 1-4321/12-01-02, EMC testing according to IEC 60945 / EN 55024:2010
33	1-2074-01-03/10		EMC Test Report: CETECOM No. 1-2074-01-03/10 according to EN 55022 / EN 55024 / IEC 60945
31	Ref: 8AL 90808 AAAA	02	Priority stations User Guide in Maritime Environments
24		6	Performance Test DNV Type Approval of Alcatel-Lucent OmniPCX Office/Enterprise
22	ALCATEL CSBU	01	OmniPCX Behaviour in Salt Mist Environment
19		01	Rack mounting of OXE & OXO
2	2006-3472	1	Report: DNV, EMC and environmental testing of OmniPCX Office (OXO) Call server and expansion module, OmniPCX Enterprise (OXE) call server and system telephone sets