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THE COMPANIES ACTS 1985 TO 1989

PUBLIC COMPANY LIMITED BY SHARES

MEMORANDUM OF ASSOCIATION OF

ABLE DATA INSTALLATIONS PLC
(adopted by Special Resolution dated 20 July 1995)

1. The name of the Company is:- ABLE DATA INSTALLATIONS PLC.

2. The Company is to be a Public Company.

3. The Registered Office of the Company will be situated in England and Wales.

4. The objects for which the Company is established are:-

   (a) To carry on business as designers, manufacturers, distributors, wholesalers and retailers, installers, maintainers and repairers of computer cables and linking devices between computers, visual display units, monitors and all types of daisy wheel, matrix, ink-jet and laser printers and acoustic hoods and other devices for reducing noise and vibration; to act as importers, exporters, buyers, sellers, leasers, hirers and letters out on hire, manufacturers of and dealers in computers, computer terminals, communication and data transmission equipment utilising both radio and microwave links and other electronic and electrical equipment, office and business machines, equipment, furniture, materials, supplies and all computer hardware, software, peripherals, programmes, systems, stationery, forms, cards, magnetic tape reels and discs and all requisites in connection with the computer and data processing industries and to design and alter software for specific application and also to deal in all general office furniture, furnishings, fixtures and fittings, particularly that relating to computer technology.

   (b) To carry on business as computer consultants and to undertake instruction work in connection with computer hardware and software programming, systems and operations and to arrange and undertake lectures, seminars, conferences, exhibitions and training courses in connection therewith and to publish journals, lists, catalogues, mail news and all general and commercial information regarding

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computers and to operate computer staff agencies.

(c) To carry on business as computer and computer system engineers, designers, manufacturers, assemblers, installers, programmers, analysts, buyers, sellers and dealers in, services, repairers maintainers, removers and brokers and to deal in designing, analysing, programme and operation systems of all kinds.

(d) To carry on any other business of any description whatsoever which may seem to the Company or in the opinion of the Directors thereof be advantageously carried on in connection with or ancillary to the objects of the Company or any of them and calculated directly or indirectly to render more profitable the Company's business.

(e) To purchase or by any other means acquire, sell, lease, rent, licence, surrender, accept surrenders of, mortgage, charge or otherwise deal in any freehold, leasehold or other property wheresoever situate.

(f) To erect, construct, pull down, dismantle, remover or replace, repair and maintain, alter, hire, enlarge and adapt any buildings both portable and otherwise and use the same for the Company's business or any of them.

(g) To buy, sell, import, export, manufacture, exchange or part exchange, let on hire, build, construct, install, erect, enlarge, improve, adapt, dismantle, re-model, repair and maintain any engine, machinery, plant and material of any description capable of being conveniently made, used or sold in any of the businesses or trades aforesaid.

(h) To purchase or by any other means acquire, take over and undertake all or any part of the business, property, liabilities and assets of any person, firm or company carrying on or formed to carry on any business for which this Company is authorised to carry on or possessed of property suitable to the purposes of this Company and which is calculated to advance the interests of this Company and make more profitable the Company's business and to pay cash or to issue shares, stock, debentures or debenture stock of this Company as the consideration for such purpose of acquisition and to undertake any liabilities or obligations relating to the business or property so purchased or acquired.

(i) To enter into partnership or any arrangement of any kind with any person, persons, firm or company having for its objects similar objects to those of this Company or any of them with a view to increasing the business of the Company.

(j) To purchase, subscribe for or otherwise acquire shares, stock or other interests in any Company or Corporation.

(k) To act as agents or brokers for any person, firm or company and to undertake and perform sub contracts for any person, persons, firms or companies and also to appoint such agents, sub-contractors and brokers and to act in any of the businesses of the Company through them.

(l) To apply for, register, purchase or by any other means acquire and protect and prolong and renew trade marks, patents, licences, concessions and designs which may be capable of being dealt with by the Company or likely to benefit the Company and to grant licences or privileges thereout.

(m) To sell, let, licence, develop or otherwise deal with the undertaking or all or any part of the property or assets of the Company upon such terms as the Company may approve with power to accept shares, debentures or securities of, or interests in any other Company.

(n) To guarantee the payment of any debentures, debenture stock, mortgages, charges, bonds, obligations, interests, dividends, securities, monies or shares or the performance of contracts or engagements of any other company or person and to give indemnities and guarantees of all kinds whenever considered desirable and to guarantee either by personal obligation or by mortgaging or charging all or any part of the undertaking property and assets both present and future and uncalled capital of the Company or by both such methods the performance of any contract or obligation of any person, firm or company whatsoever.

(o) To invest and deal with the monies of the Company not immediately required in such shares or upon such securities and in such manner and on such conditions as may from time to time be determined.

(p) To borrow and raise money upon such terms and on such security as may be considered expedient and in particular by the issue or deposit of debentures or debenture stock and to secure the repayment of any money borrowed, raised or owing by mortgage charge or lien upon the whole or any part of the undertaking, property and assets of the Company, both present and future, including its uncalled capital.

(q) To draw, make, accept, endorse, discount, execute and issue promissory notes, bills of exchange, bills of lading, warrants, debentures and other negotiable instruments.

(r) To lend and advance money and give credit to any persons, firms or companies on such terms and conditions as the Company may decide.

(s) To make advances to customers and others and allow them credit without security to enable them to purchase the goods, produce or products of the Company or use its services and for any purpose

calculated to enhance the Company's business.

(t) To promote the Company's interests by advertising its products, works or services in any manner and to take part in competitions, displays and exhibitions and offer prizes, gifts and concessions to customers or prospective customers as might seem desirable.

(u) To remunerate any person, firm or company rendering services to this Company in any manner whatsoever.

(v) To grant pensions, allowances, gratuities and bonuses to existing or former employees and officers (including Directors or ex Directors) of the Company or the dependants of such persons and to establish and maintain or concur in maintaining trusts, funds or schemes, (whether contributory or non-contributory) with a view to providing pensions or other funds for any such person as aforesaid or their dependants and to establish and support or to aid in the establishment and support of any schools and any educational, scientific, literary, religious or charitable institutions or trade societies, whether such institutions or societies be solely connected with the business carried on by the Company or not, and to institute and maintain any club or other establishment or profit sharing scheme calculated to advance the interests of the Company or of the persons employed by the Company.

(w) To pay all and any expenses incurred in connection with the promotion, formation and incorporation of this Company and to promote or aid in the promotion of any other companies.

(x) To distribute any property in specie among the members of the Company.

(y) To do all such other things as are incidental or conducive to the attainment of the above objects or any of them.

It is declared that the foregoing sub-clauses or any of them shall be construed independently of each other and none of the objects herein mentioned shall be deemed to be merely subsidiary to the objects contained in any other sub-clauses.

5. The liability of the members is limited.

*6. The share capital of the Company is £100,000 divided into 100,000 shares of £1 each with power to increase or to divide the shares in the capital of the Company for the time being into different classes having such rights, privileges and advantages as to voting or otherwise as the Articles of Association may from time to time prescribe.

* On incorporation, the share capital was £5,000 divided into 5,000 shares of £1 each. The share capital was increased by Ordinary Resolution dated 20 July 1995 to £100,000 by the creation of a further 95,000 Ordinary Shares of £1 each.

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THE COMPANIES ACTS 1985-1989

PUBLIC COMPANY LIMITED BY SHARES

ARTICLES OF ASSOCIATION OF

ABLE DATA INSTALLATIONS PLC

(ADOPTED BY SPECIAL RESOLUTION DATED 20 JULY 1995)

PRELIMINARY

1.(a) The Regulations contained in Table A in the Schedule to the Companies (Tables A to F) Regulations 1985 (Sl 1985 No. 805) as amended by the Companies (Tables A to F) (Amendment) Regulations 1985 (Sl 1985 No. 1052) (such Table being hereinafter called "Table A") shall apply to the Company save in so far as they are excluded or varied hereby and such Regulations (save as so excluded or varied) and the Articles hereinafter contained shall be the regulations of the Company.

(b) In these Articles the expression "the Act" means the Companies Act 1985, but so that any reference in these Articles to any provision of the Act shall be deemed to include a reference to any statutory modification or re-enactment of that provision for the time being in force.

ALLOTMENT OF SHARES

2.(a) Shares which are comprised in the authorised but unissued share capital of the Company shall be under the control of the Directors who may (subject to Sections 80 and 89 of the Act and to paragraphs (b) and (c) below) allot, grant options over or otherwise dispose of the same, to such persons, on such terms and in such manner as they think fit.

(b) The Directors are generally and unconditionally authorised for the purposes of Section 80 of the Act, to exercise any power of the Company to allot and grant rights to subscribe for or convert securities into shares of the Company up to the amount of the authorised share capital with which the Company is incorporated at any time or times during the period of five years from the date of incorporation and the Directors may, after that period, allot any shares or grant any such rights under this authority in pursuance of an offer or agreement so to do made by the Company within that period. The authority hereby given may at any time (subject to the said Section 80) be renewed, revoked or varied by Ordinary Resolution of the Company in General Meeting.

(c) The Directors are empowered to allot and grant rights to subscribe for or convert securities into shares of the Company pursuant to the authority conferred under paragraph (b) above as if Section 89(1) of the Act did not apply. This power shall enable the Directors so to allot and grant rights to subscribe for or convert securities into shares of the Company after its expiry in pursuance of an offer or agreement so to do made by the Company before its expiry.

(d) Save as authorised by the Act, the Company shall not give, whether directly or indirectly, any financial assistance (as defined in Section 152(1)(a) of the Act) for any such purpose as is specified in Section 151 of the Act.

(e) Save as permitted by Section 101(2) of the Act, no shares of the Company shall be allotted except as paid up at least as to one quarter of their nominal value and the whole of any premium.

SHARES

3. The liability of any Member in default in respect of a call shall be increased by the addition at the end of the first sentence of Clause 18 in Table A of the words "and all expenses that may have been incurred by the Company by reason of such non-payment".

GENERAL MEETINGS AND RESOLUTIONS

4. Every notice convening a General Meeting shall comply with the provisions of Section 372(3) of the Act as to giving information to Members in regard to their right to appoint proxies; and notices of and other communications relating to any General Meeting which any Member is entitled to receive shall be sent to the Directors and to the Auditors for the time being of the Company.

5.(a) If a quorum is not present within half an hour from the time appointed for a General Meeting, the General Meeting shall stand adjourned to the same day in the next week at the same time and place or to such other day and at such other time and place as the Directors may determine; and if at the adjourned General Meeting a quorum is not present within half an hour from the time appointed therefor, such adjourned General Meeting shall be dissolved.

(b) Clause 41 in Table A shall not apply to the Company.

APPOINTMENT OF DIRECTORS

6.(a) Clause 64 in Table A shall not apply to the Company.

(b) The maximum number and minimum number respectively of the Directors may be determined from time to time by Ordinary Resolution in General Meeting of the Company. Subject to and in default of any such determination there shall be no maximum number of Directors and the minimum number of Directors shall be two.

(c) The Directors shall not be required to retire by rotation and Clauses 73 to 80 (inclusive) in Table A shall not apply to the Company.

(d) No person shall be appointed a Director at any General Meeting unless either:

(i) he is recommended by the Directors; or

(ii) not less than fourteen nor more than thirty-five clear days before the date appointed for the General Meeting, notice signed by a Member qualified to vote at the General Meeting has been given to the Company of the intention to propose that person for appointment, together with notice signed by that person of his willingness to be appointed.

(e) Subject to paragraph (d) above, the Company may by Ordinary Resolution in General Meeting appoint any person who is willing to act to be a Director, either to fill a vacancy or as an additional Director.

(f) The Directors may appoint a person who is willing to act to be a Director, either to fill a vacancy or as an additional Director, provided that the appointment does not cause the number of Directors to exceed any number determined in accordance with paragraph (b) above as the maximum number of Directors and for the time being in force.

BORROWING POWERS

7. The Directors may exercise all the powers of the Company to borrow money without limit as to amount and upon such terms and in such manner as they think fit, and subject (in the case of any security convertible into shares) to Section 80 of the Act to grant any mortgage, charge or standard security over its undertaking, property and uncalled capital, or any part thereof, and to issue debentures, debenture stock, and other securities whether outright or as security for any debt, liability or obligation of the Company or of any third party.

ALTERNATE DIRECTORS

8.(a) An alternate Director shall not be entitled as such to receive any remuneration from the Company, save that he may be paid by the Company such part (if any) of the remuneration otherwise payable to his appointor as such appointor may by notice in writing to the Company from time to time direct, and the first sentence of Clause 66 in Table A shall be modified accordingly.

(b) A Director, or any such other person as is mentioned in Clause 65 in Table A, may act as an alternate Director to represent more than one Director, and an alternate Director shall be entitled at any meeting of the Directors or of any committee of the Directors to one vote for every Director whom he represents in addition to his own vote (if any) as a Director, but he shall count as only one for the purpose of determining whether a quorum is present.

GRATUITIES AND PENSIONS

9.(a) The Directors may exercise the powers of the Company conferred by Clause 4(t) of the Memorandum of Association of the Company and shall be entitled to retain any benefits received by them or any of them by reason of the exercise of any such powers.

(b) Clause 87 in Table A shall not apply to the Company.

PROCEEDINGS OF DIRECTORS

10.(a) A Director may vote, at any meeting of the Directors or of any committee of the Directors, on any resolution, notwithstanding that it in any way concerns or relates to a matter in which he has, directly or indirectly, any kind of interest whatsoever, and if he shall vote on any such resolution as aforesaid his vote shall be counted; and in relation to any such resolution as aforesaid he shall (whether or not he shall vote on the same) be taken into account in calculating the quorum present at the meeting.

(b) Clauses 94 to 97 (inclusive) in Table A shall not apply to the Company.

THE SEAL

11.(a) If the Company has a seal it shall only be used with the authority of the Directors or of a committee of Directors. The Directors may determine who shall sign any instrument to which the seal is affixed and unless otherwise so determined it shall be signed by a Director and by the Secretary or second Director. The obligation under

Clause 6 of Table A relating to the sealing of share certificates shall apply only if the Company has a seal. Clause 101 of Table A shall not apply to the Company.

(b) The Company may exercise the powers conferred by Section 39 of the Act with regard to having an official seal for use abroad, and such powers shall be vested in the Directors.

INDEMNITY

12.(a) Every Director or other officer or Auditor of the Company shall be indemnified out of the assets of the Company against all losses or liabilities which he may sustain or incur in or about the execution of the duties of his office or otherwise in relation thereto, including any liability incurred by him in defending any proceedings, whether civil or criminal, in which judgement is given in his favour or in which he is acquitted or in connection with any application under Section 144 or Section 727 of the Act in which relief is granted to him by the Court, and no Director or other officer shall be liable for any loss, damage or misfortune which may happen to or be incurred by the Company in the execution of the duties of his office or in relation thereto. But this Article shall only have effect in so far as its provisions are not avoided by Section 310 of the Act.

(b) The Directors shall have power to purchase and maintain for any Director, officer or Auditor of the Company insurance against any such liability as is referred to in Section 310(1) of the Act.

(c) Clause 118 in Table A shall not apply to the Company.