

## Curriculum Vitae for Erik Andersen

<b>Company:</b>	Andersen's L-Service (one-man consultancy)
<b>Nationality:</b>	Danish
<b>Education:</b>	Master of Science in Electronics and Physics, Danish Technical University, 1965
<b>Competences</b>	
<b>General</b>	<ul style="list-style-type: none"> <li>◆ Directory (LDAP, X.500, E.115 og F.515)</li> <li>◆ Data modelling</li> <li>◆ Security (digital signatures, PKI, etc.). Is as editor responsible for the development and maintenance of X.509.</li> <li>◆ System architecture</li> <li>◆ Development of (international) standards.</li> <li>◆ Specification writing</li> <li>◆ Preparing and conducting education</li> </ul>
<b>Specific</b>	<ul style="list-style-type: none"> <li>◆ XSD, XML and ASN.1</li> <li>◆ Knowledge of SAML2</li> <li>◆ SNMP and OSI Management</li> <li>◆ Object oriented (OO) design</li> </ul>
<b>Occupational Record:</b>	
<b>1995 → now</b>	<p style="color: #800080; margin: 0;"><b>Independent consultant:</b></p> <ul style="list-style-type: none"> <li>◆ Freelance consultant with Devoteam Consultant (<a href="http://www.devoteam.dk">http://www.devoteam.dk</a>), Denmark in most areas of data communication. Have been involved in several directory projects. Example of tasks performed under Devoteam contracts are: <ul style="list-style-type: none"> <li>▶ Developed, tested and documented an implementation of the OSI Transport Layer (layer 4) for communication over CSMA/CD LAN (Ethernet). The program was developed using the C programming language.</li> <li>▶ Developer and editor of a procurement guide for "TCP/IP and its coexistence and interworking with OSI".</li> <li>▶ Produced technical specification for a LAN installation for new Faroese Government building and performed quality assurance check on the installation.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>▶ Produced evaluation of Secure Socket Layer (SSL) to be used for home banking for major Danish bank.</li> <li>▶ Participating in pre-study and later in the implementation phase of a project for creating a national-email directory based on X.500/LDAP.</li> <li>▶ Evaluated a directory project involving meta-directories and Microsoft Active Directory.</li> <li>▶ Produced first version of Certificate Policy for the use of electronic signatures for public use.</li> <li>▶ Performed security analysis for major Danish financial institutes.</li> <li>▶ Review of security design for home banking and e-government.</li> </ul>
<p><b>1995 → now</b></p>	<ul style="list-style-type: none"> <li>◆ Examples of tasks performed under own company contracts: <ul style="list-style-type: none"> <li>▶ Development of two implementation guides: "Guidance for the Realisation of Corporate Directories" and "Co-ordination of Directory Management Domains (DMDs)" sponsored by the European Commission.</li> <li>▶ An analysis sponsored by the European Commission to what degree standard X.500 can be used for International Operator Directory Assistance according to the requirements expressed by ITU-T Rec. F.510, Automated directory assistance - White pages service definition.</li> <li>▶ Developed extensions to X.500 to support ITU-T Rec. F.510 requirements for the Association for the Directory Information and Related Search Industry (EIDQ - <a href="http://www.eidq.org">http://www.eidq.org</a>)</li> <li>▶ Developed a new directory specification (ITU-T Rec. F.515, Unified Directory Specification) for the EIDQ Association using XML as the primary protocol encoding format, and HTTP and SOAP as underlying protocol stack.</li> <li>▶ Developed a new version of ITU-T F.510 for the EIDQ Association to provide new enhancements.</li> <li>▶ Developed new versions of ITU-T E.115, Computerized Directory Assistance for the EIDQ Association to reflect new requirements, including XML access, use of HTTP, extended character set support, etc.</li> <li>▶ Is currently for the EIDQ Association working on further ITU-T Rec. E.115 improvements.</li> <li>▶ Developed and conducted a one day seminar on X.500/LDAP technologies.</li> <li>▶ Developed and conducted a two days course on TMN (Telecommunications Management Network).</li> </ul> </li> </ul>

<p><b>1968 → 1995</b></p>	<p><b>Employed by IBM as Senior System Engineer:</b></p> <ul style="list-style-type: none"> <li>◆ Joined IBM 1 April 1968 in Vermont, USA working with integrated circuits.</li> <li>◆ Joined IBM Denmark 1 September 1969. Has been a data communication specialist after this date. <ul style="list-style-type: none"> <li>▶ Specialist in IBM's Systems Network Architecture (SNA). Developed a one-week course on the subject. Was taught by others and me for many years.</li> <li>▶ Specialist in IBM communications software (VTAM, NCP, etc.).</li> <li>▶ Working in IBM customer installations.</li> <li>▶ Participate in sales presentations and proposal preparation.</li> <li>▶ Designed the network for Danish banks when first going online using simulation techniques.</li> <li>▶ Chief application architect and implementation responsible for major 2 years front-end project for Danish bank.</li> <li>▶ Responsibility for many other projects within data communication, including network management projects.</li> <li>▶ Frequent presenter at IBM seminars and education institutes.</li> </ul> </li> <li>◆ 1975 → 1977: A two-year assignment with IBM Nordic Education Center in Stockholm, Sweden teaching data communications and queuing theory.</li> <li>◆ 1987 → 1990: A three-year assignment with IBM's laboratory in La Gaude, France working in the OSI Competence and Services Center.</li> <li>◆ Since 1990 the IBM Denmark OSI specialist and have installed several X.400 and FTAM systems on all IBM platforms. Have also been involved in SNMP and OSI Management project.</li> </ul>
<p><b>1967 → 1968</b></p>	<p>Working on semiconductors at Westinghouse Pittsburgh, USA.</p>
<p><b>1965 → 1967</b></p>	<p>Working on semiconductors at Haldor Topsoe, Frederikssund, Denmark.</p>
<p><b>1959 → 1965</b></p>	<p>Study at the Danish Technical University. Sailed as a ship-electrician during vacations.</p>
<p><b>1956 → 1959</b></p>	<p>In the Danish Air Force as a fighter plane electrician.</p>
<p><b>1952 → 1956</b></p>	<p>Education as an electrician.</p>

Professional activities:	
<b>2006 → now</b>	Main creator and administrator of the site <a href="http://www.x500standard.com">http://www.x500standard.com</a>
<b>1984 → now</b>	Have been heavily involved in the development of the six X.500 editions produced so far, and is heavily involved in the development of the coming seventh edition.
<b>1999 → now</b>	Project editor for the X.500 Directory Specifications. Have edited the four latest editions (third to sixth edition)
<b>2000 → now</b>	Rapporteur for the Directory services, Directory systems, and public-key/attribute certificates project within ITU-T.
<b>2001 → 2007</b>	Member of the Danish Forum for Digital Security (FDS) within the Danish Standards.
<b>1992 → 1996</b>	Member of the board of the Danish Engineering Associations special interest group on Information Technology (IDA-IT).
<b>1980 → 2001</b>	Member of the Danish Standards' group for Open Systems Interconnection (OSI) standardization until its termination. Has been active in general OSI Architecture work, the OSI Management work and especially in the X.500 (OSI Directory) area since the start of this work at the international level.
<b>1989 → 1998</b>	Member of and later the chairperson of the European Workshop on Open Systems - Directory Expert Group (EWOS/EG DIR) until its termination. Was editor of several documents.
<b>1998 → 2002</b>	Chairperson of the directory group within CEN Information Society Standardization System (CEN/ISSS) until its termination. Was editor of several documents.