

# Christian J. Callsen

## Profile

Name Christian J. Callsen  
 Position Enterprise Architect, IT Consultant  
 Education Ph.D. in Computer Science (1994)  
 M.Sc. in Computer Engineering (1991)  
 Experience 19 years industry experience (8+ years in Silicon Valley)  
 Key qualifications Expert in distributed systems, messaging and networking



## Education

### Ph.D. in Computer Science, Aalborg University, Denmark

- Distributed Systems; Thesis titled "*Open Heterogeneous Computing in ActorSpace*", which analyzed and discussed current distributed systems and their shortcomings in openness and heterogeneity.
- Visiting Scholar at the University of Illinois, Urbana-Champaign, USA.

### M.Sc. in Computer Engineering, Aalborg University, Denmark (Civilingeniør)

- Thesis on evaluating and optimizing implementations of the distributed programming paradigm "Linda".

## Certifications

### TOGAF 9.1 Certified, November 2012

- Certification license 65368, The Open Group

### Certified Scrum Product Owner, October 2010

- Scrumalliance.org

### Sun Certified Java Programmer, 2006

- Oracle (formerly Sun Microsystems)

## Experience

### 2010 - present OptimumIT ApS

It-consultant

- Consulting as Enterprise Architect for public and private customers
- Projects include requirements engineering, documentation, evaluation for public tenders
- Partner in company

### 2008 - 2009 Silverbullet A/S

It-consultant

- Consulting as Enterprise Architect for public and private customers
- Projects include integration solutions, performance evaluations

### 2006 - 2007 Systematic A/S

Enterprise and Solutions Architect

- Enterprise Architect, responsible for developing a partial Enterprise Architecture for a customer in the Danish Defense, using the MODAF Architecture Framework, together with the customer domain experts.
- Solutions Architect for Java EE based healthcare system. Responsible for architecture work for a J2EE-based product in the Healthcare area for several customers. Included feature requirement negotiation directly with customers.

### 1998 - 2006 Software AG (webMethods) [Silicon Valley, USA] Software Architect, Lead Developer

- Responsible for technical leadership, architecture & feature development of the Messaging team's products, including point-to-point and pub/sub messaging, transactional processing, storage, performance, scalability and more, and support for full JMS compliance. Provide leadership, prioritization and goal setting for future product releases.

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- Responsible for technical leadership and feature development for the entire webMethods Broker team. Had a total of 6 individual contributors reporting to me while providing technical leadership as well.
- Responsible for designing and implementing numerous features in the webMethods messaging product (Broker), including SSL, security, various supporting command-line tools, server porting, and more.

**1995 - 1998 Oracle (Sun Microsystems) [Silicon Valley, USA] Software Engineer**

- Responsible for Naming and Directory Services in Sun network appliance; storage, NIS, DNS and LDAP. Contributed to Sun network appliance common framework.
- Key designer on next-generation ORB, delivering increased performance, scalability, quality and standards-conformance. Implemented key improvements to ORB Daemon. Responsible for Naming and Directory Services in Sun CORBA Object Request Broker (ORB), and contributed to Java ORB reference implementation.

**1994 - 1995 Danish Defense Staff Software Engineer**

- Implemented and maintained a scalability framework for distributed applications. Advised on parallel computer acquisition.

## Selected Projects (in Danish)

- 2012 – present Rammearkitekturen Støttesystemer, KOMBIT A/S It-konsulent**
- Bistand til anskaffelse af strategisk beskedfordeler (messaging platform), samt tværgående bistand til anskaffelse af infrastrukturens systemer til understøttelse af den kommunale digitaliseringsstrategi, herunder udarbejdelse af kravspecifikationer og andet materiale til EU-udbud.
- 2010 – present Arkitektur og integration, Rigspolitiet It-konsulent**
- Leveret arkitektur- og integrationsbistand til Rigspolitiet i forbindelse med den overordnede systemarkitektur. Bistået ved overdragelse til drift og systemforvaltning af konkrete infrastrukturkomponenter og systemkomponenter i it-systemlandskabet. Udarbejdelse og kvalitetssikring af drifts- og sikkerhedsrelateret dokumentation, samt dokumentation til systemforvaltning. Identifikation af tekniske problemer og praktiske løsninger.
- 2010 – present Dataadgang og Serviceplatformen, KOMBIT A/S It-konsulent**
- Bistand til anskaffelse af strategisk, open source baseret serviceplatform under EU-udbud. Bistået under anskaffelsen med udarbejdelse af udbudsmateriale, samt ved tilbudsvurdering og tildelingsbeslutning. Desuden bistået under udviklingen af Serviceplatformen under tests og prøver.
- 2010 – 2010 DAHLIA og ULS, Lægemedelstyrelsen It-konsulent**
- Udarbejdet løsningsarkitektur, use case baseret behovsopgørelse/kravspecifikation, bidraget til udbudsmateriale til dokumentation, test og drift, arkitekturbistand i forbindelse med udbud samt tilbudsvurdering til Projekt ULS (løsning til styring af ansøgningssager).
  - Foretaget dokumentationsreview og -kvalitetssikring af samlede dokumentationsleverancer under DAHLIA programmet som en del af prøver i forbindelse med leverancen.
- 2009 – 2010 NSP, National Sundheds It (SDSD) It-konsulent**
- Udarbejdet løsningsarkitektur for National Service Platform (integrationsplatform til primært regionale services), baseret på open source, med decentral drift.
  - Udviklet løsningskomponenter, herunder til driftsautomatisering, samt tekniske specifikationer.
- 2008 – 2009 Bivirkningsindberetning og It-rådgivning, Lægemedelstyrelsen It-arkitekt**
- Dokumentationsreview og udarbejdelse af dokumentationsstandard i Lægemedelstyrelsen.
  - Arkitekturanalyse og -overblik i forretningssektion, herunder afdækning af driftssystemer for sektionen.
  - Reviews indenfor sikkerhed og domænemodellering.
  - Implementeret løsning til indberetning fra lægepraksissystemer, baseret på IBM Java EE platform.
  - Håndteret anvendelse af nationale sikkerhedsstandarder (DGWS) i forbindelse med indberetninger.
- 2008 – 2008 Integrationsudvikling, Region Hovedstaden It-konsulent, udvikler**
- Udarbejdet løsningsarkitektur og udviklet integrationer til brugerstyringssystemer og til opdatering af registerdata i et væld af forskellige systemer.
  - Udarbejdet drifts- og systemforvaltnings-relateret dokumentation til driftsafviklingen i regionen.

# Christian J. Callsen

**2008 – 2008 Performance analyse, Region Midtjylland****It-konsulent**

- Performanceanalyse af EPJ system i drift hos regionen med anbefalinger som grundlag for beslutningsindstilling om regionalt valg af EPJ system, herunder anbefalinger til driftsorganisering samt systemforvaltning.

**2007 – 2007 Enterprise arkitektur, Forsvaret****It-konsulent**

- Udarbejdet enterprise arkitektur for sektion i forsvaret under anvendelse af enterprise arkitektur framework (MODAF). Sikring af sammenhængende it-landskab, herunder anbefalinger til driftsmiljøer og driftsarkitektur.

## Patents and Publications

### Publications

- Christian J. Callsen and Gul Agha, "Open Heterogeneous Computing in ActorSpace", Journal of Parallel and Distributed Computing, Special issue on Heterogeneous Processing, No. 21, pp 289-300, 1994.
- Christian J. Callsen, "Open Heterogeneous Distributed Computing", Ph.D. thesis published as Technical Report R94-2025 from Aalborg University, August 1994.
- Gul Agha and Christian J. Callsen, "ActorSpace: An Open Distributed Programming Paradigm", Fourth ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming, San Diego, CA, May 1993. Also published as a Special Issue of SIGPLAN Notices vol. 28, No. 7, pp 23-32, July, 1993.
- Gul Agha and Christian J. Callsen, "ActorSpaces: A Model for Scalable Heterogeneous Computing (Extended Abstract)", in Proceedings of 26th Hawaii International Conference on System Sciences, vol 2, pp 100-101, January 1993.
- Christian J. Callsen, Ivan Cheng, and Per L. Hagen, "The AUC C++Linda System", in Greg Wilson, editor, Linda-Like Systems and Their Implementation, pp 39-73, Edinburgh Parallel Computing Center, June 1991. Technical Report TR91-13.

### Patents

- Filed 2 patents as inventor, and co-filed 10 patents as co-inventor, which have been granted by the US PTO on work done at Sun Microsystems, Inc (now Oracle).

## Personal profile

- Date of Birth: March 26th, 1967
- Married, 2 children.
- Speaks Danish and English fluently; with high proficiency and experience in writing both. Good verbal knowledge of German.
- Citizenship: Danish

## Contact information

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