History of the Software AG

• **1969**
  
  The concept for an adaptable and extremely versatile database management system grows out of extensive experience gained from data processing applications and the development of the first software products.

• **1971**

  Adabas (adaptable database system) is launched for the first time. Adabas is a high-performance database that provides the users with the information they need quickly and flexibly.

• **1973**

  Software AG’s first user conference takes place in New York with ten participants in attendance. Over the next few years, Software AG product users form user groups in Germany, the USA and a host of other countries.

• **1976 – 1979**

  Development and release of Natural. This is an application programming language that makes it much more economical for individual customers to create data processing applications. The product got its name because it supports the natural working method of the developer.
History of the Software AG

• 1987
  Software AG directs its product strategy towards open integrated software architecture (Open ISA). ISA provides the basic architecture for developing new functions in an integrated way, allowing users to make use of new technical possibilities without making major changes to their existing application systems.

• 1988-1997
  Growing market share worldwide.
  Adabas is now running in different systems – Mainframe, DEC/VAX computers, UNIX etc
  The JDK 1.0 was released in 1996

• 1998
  Software AG introduces Bolero, a software platform for e-commerce based on Java technology. At 1.2 million lines of Java code, Bolero is one of the largest Java applications in this time.

• 2000
  Software AG introduces the Tamino XML Platform – the world’s first product platform entirely based on XML.
History of the Software AG

• 2007

  Software AG successfully acquires webMethods, Inc. (NASDAQ: WEBM) a leading business integration and optimization software company. With a deal value of $546 million, this merger was one of the largest pure software deals in the history of the European IT industry. The combination creates a new global leader in business infrastructure software with over 4,000 enterprise customers worldwide and is one of the largest independent vendors in the rapidly growing Service-Oriented Architecture (SOA) and Business Process Management (BPM) markets.

• post 2007

  Acquiring various products over the years.
PERIOD OF ACQUISITIONS
CHALLENGES WE HAVE TO FACE

- Increase repeatable patterns across the product range
- Minimize different solutions of the same problems: launching, class loading
- Reduce cost of maintaining redundant implementations
- Avoid fragmented runtimes with a variety of interconnected configurations
Software AG Common Java Platform

**Product Based**
- Application n
- Application 2
- **Application 1** (Use case 1)

**Platform Based**
- Digital Business Logic
  - Use case 1
  - Use case 2
  - Use case n
- Digital Application 1
- Digital Application 2
- Digital Application n

### Product Based
- Monolithic • Complex • Inflexible/slow

### Platform Based
- Modular • Agile • Flexible/fast
Software AG Common Java Platform (2010)

We need of reliable modular system allowing dynamic provisioning and dependency management across different components.

- Create internally
  - Time to Market
  - Risk of failure

- JEE Based
  - Constrained programming model

- OSGi Based
  - Modular architecture and effective approach to normalized platform
  - Component inventory naturally created from bundle dependencies

_Jigsaw was started at 2008 but 2 years late still not clear about its future_.

Our choice was to build the platform based on OSGi.
OSGi as a basis of Common Java Platform

- Building dynamic runtimes
- Sharing functionality
- Integrating external components
- Building common patterns across products
  - Configuration
  - Monitoring
  - Management
  - Logging etc.

OSGi – Java open points
- Java Service provider
- Java Module Systems
Java Platform in a basis of Digital Business Platform

**Business & IT Transformation**
- Business strategy & planning
- Customer journeys
- Design & analysis
- Risk & compliance management
- Portfolio management
- Enterprise architecture
- Process analytics

**Analytics & Decisions**
- Streaming analytics
- Machine learning
- Predictive analytics
- Edge analytics
- Visual analytics
- In-Memory store & compute
- Distributed caching
- Alerts & actions
- Event routing & persistence

**Process & Applications**
- Dynamic orchestration
- Process automation
- Case management
- Robotic process automation
- Mobile enablement
- Task & work management
- Rules management
- Content management
- Low code app development

**Integration & API**
- Application integration
- Cloud & Big Data integration
- Messaging
- Mainframe & data integration
- API portal
- API & service catalog
- Master data management
- B2B & managed file transfer

**Devices**
- Device management
- Device agents
- Device connectivity
- Edge services

**Internet of Things**
- Edge analytics
- Streaming analytics
- Machine learning
- Predictive analytics
- Edge services
- In-Memory store & compute
- Distributed caching
- Alerts & actions
- Event routing & persistence
- Low code app development
- Dynamic orchestration
- Process automation
- Case management
- Robotic process automation
- Mobile enablement
- Task & work management
- Rules management
- Content management
- Application integration
- Cloud & Big Data integration
- Messaging
- Mainframe & data integration
- API portal
- API & service catalog
- Master data management
- B2B & managed file transfer

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