

# Open Source Technologies in Intega Løn

This page provides an overview of the open source technologies used in the Intega Løn solution by Intega A/S. It is intended for technical stakeholders – such as integration partners, vendors, or customers with in-house development – who need insight into the technology stack behind the system.

## Actively Used Open Source Components

Technology	Purpose	Platform	Usage
<a href="#">NLog</a>	Logging	.NET	Used for application logging through a wrapper ( <a href="#">Log.cs</a> ). Configured in various <a href="#">Web.config</a> files and supports multiple output targets.
<a href="#">MSTest</a>	Unit Testing	.NET	Used for automated unit testing, primarily via <a href="#">[TestClass]</a> and <a href="#">[TestMethod]</a> attributes.
<a href="#">Entity Framework</a>	ORM (Object-Relational Mapping)	.NET	Handles database access using generated models from <a href="#">.edmx</a> and <a href="#">.tt</a> templates. Supports LINQ and transaction management.
<a href="#">jQuery</a>	JavaScript Library	Web	Included as a client-side library for DOM manipulation and event handling. Version 3.5.1 is used.

## Java-Origin Technologies (Legacy or Translated)

Intega Løn has historical roots in a Java-based solution. Some code and configuration elements reflect this origin, although they are no longer part of the actively used technology stack.

Technology	Status	Notes
<a href="#">java.sql.Types</a>	Ported to .NET	Enum-based representation of SQL data types inspired by Java's <a href="#">java.sql.Types</a> . Implemented in C# for internal DB abstraction.
<a href="#">Apache Commons Logging</a>	Legacy reference	Present only in comments or historical import statements. Not actively used in the current solution.
<a href="#">Apache Struts</a>	Legacy (Java)	Appears in legacy config files and transitional code, such as <a href="#">struts-config.xml</a> and <a href="#">StrutsToMvc.cs</a> . Not used in the .NET implementation.

## Technical Framework

- **.NET Framework:** Version 4.5.1
- **Data Access:** Entity Framework 6.2.0
- **Testing:** MSTest (Microsoft Visual Studio test framework)
- **Frontend:** Static bundle of jQuery 3.5.1

## License and Compliance

All third-party open source libraries are licensed under well-known and permissive licenses (e.g., MIT, Apache 2.0), and their usage is in full compliance with Visma's internal policies for external software components.