

# Glossary (nomenclature)

- Codebase development over time
- Objects
- Parts
- Platform metrics

# Codebase development over time

Designer configuring the solution meta models

TsDesignerStat.png

Engine handling the solution meta models

TsEngineStat.png

Tempus Serva core databases

TsDatabaseStat.png

Client side scripting

TsScriptStat.png

Linux administration tools

TsAmazonStat.png

# Objects

- Dashboard: Front-end page
  - Widget: UI element in a dashboard
- Section: Collection of entities
- Entity: Describes a type of record, including its behavior and datatypes (This is a class in OOP)
- Record: Main data holding thing (This is an object in OOP)
  - Revision: How many times a record has been changed
- Status: Configurable state a record is in
  - Level: Assignable number to a status
  - Action: Configurable behavior depending on status
- Field: A single data point of a record
  - Block: Collection of fields for the purpose of access management
  - Validation: A check on whether or not a field has received correct data
  - Dependency: A field's existence can be made dependent on other things
- User group: Determines who has access to which data and features
- Codeunit: Java code for specialized functionality
- Template: Tool for automatically creating documents and interfaces by feeding values into a predefined layout.
- Interface:

# Parts

- Front-end: The system that the normal user sees
- Back-end: Where the front-end is configured
- Database: It's a database

# Platform metrics

## Performance indicators

Tested on a standard AWS small server

### Setup

- Topology: Seperate frontend / database server
- Hardware: 4 Core CPU, 2 Gb RAM
- Software: Windows, MySQL, Tomcat
- Usecases: login, list, item, update, export

### Results

- Frontend server: Average 80% CPU
- Database server: N/A
- Page throughput: 63 requests/second
- Size throughput: 421 kB/second

Results are equivilant to 500+ concurrent users

## High volume tolerance

### Setup

- 100.000 records, 5 columns each
- 20 mB export CSV file size

### Results

- <2 second reponse
- <300 mB heap size spike
- <1% garbage collection

## Codebase metrics

## Project metrics for source version 2489

- Java codebase: 536.529 lines
- Other sources: 161.647 lines
- Designer pages: 507
- Engine classes: 838
- Dependent libs: 90

## Codebase development over time