

ITLDIS Service Module - UML Class

Diagram

- Premium amount calculation

5. Parts & Pricing

- Part number lookup
- Part price retrieval
- Component list management
- Part validation

6. Reports & Exports

- Service reminder reports
- Service done lapse reports
- Invoice transaction reports
- Export functionality (Excel)

Key Components:

- **serviceAction**: Main controller with 50+ action methods
- **serviceDAO**: Data access layer with 80+ methods for database operations
- **serviceForm**: Form bean with 200+ properties for data transfer
- **Hibernate Entities**: 6+ entity classes for database mapping
- **JSP Views**: 37+ JSP pages for user interface

Technology Stack:

- **Framework**: Apache Struts 1.x (DispatchAction pattern)
- **ORM**: Hibernate
- **Database**: SQL Server
- **View Layer**: JSP
- **Reporting**: JasperReports

Data Flow:

1. **Request Flow**: HTTP Request → Action Class → DAO → Database
2. **Response Flow**: Database → DAO → Form Bean → Action → JSP View
3. **Session Management**: Uses HttpSession for user context
4. **Transaction Management**: Database transactions handled at DAO level