

# Model

## Table of contents

1 Overview.....	2
2 Schema.....	2
2.1 Compositional Structure.....	2
2.2 Tomcat Types.....	2
2.3 Package Types .....	2
2.4 Rdb Types.....	2

## 1. Overview

This document provides an overview of the ControlTier model design used by the Headlines release management system.

## 2. Schema

The model schema is based on a type hierarchy and property constraints.

### 2.1. Compositional Structure

The Acme Headlines model uses a standard component hierarchy. The model is layered in roughly three levels.

1. Mediators: Provide centralized control points for coordinating actions to model sub hierarchies.
2. Services: Represent deployments with runtime state.
3. Packages: Represent release artifacts that must be deployed to application components.

The remainder of this document provides detail for the primary domains of the model.

### 2.2. Tomcat Types

Tomcat servers are represented as Services. For each kind of named server, a specific subtype is defined.

Name	Description
JakartaTomcat	Subtype of Service, used to control the lifecycle of an Tomcat server.

**Table 1: Tomcat type Descriptions**

### 2.3. Package Types

Packages represent release artifacts that are deployed to application components. They are all derived from base types provided by the ControlTier Workbench. The Package base type establishes a common protocol for all package sub-types. The Package type is discussed in more detail [here](#).

### 2.4. Rdb Types

An Rdb type represents a database instance. Rdb instances are composed of RdbSchemas, which in turn are composed of login credentials and optionally database import files.

Name		Description
RdbSchema		Subtype of Deployment, used to manage a database schema.
MysqlRdbSchema		Subtype of RdbSchema, used to manage a mysql database schema.

**Table 1: Rdb type Descriptions**