

Онтология объединения информационных подсистем: принципы и примеры

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Аннотация

Статья посвящена вопросам объединения онтологий, которые используются при проектировании отдельных систем, входящих в корпоративную информационную систему. Данная задача возникает при построении единой онтологии для проектирования информационных систем в процессе интеграции различных информационных решений, а также при последовательном проектировании корпоративной информационной системы разными разработчиками в разное время. Предполагается, что онтологии построены по единым принципам и на основе единого тезауруса. Задача построения единой онтологии может представлять значительные трудности, связанные с необходимостью объединять онтологии, описывающие разные подсистемы предприятия. Рассмотрены вопросы формального определения возможности объединения онтологий без их предварительной доработки. Предложен критерий возможности объединения, разработана методика его расчёта на основе экспертных оценок. Рассмотрены примеры объединения онтологий с расчётом предложенного критерия. Новизна результатов заключается в разработке принципа и критерия объединения онтологий, разработке методики применения предложенного критерия.

Ключевые слова: онтология, объединение онтологий, проектирование, информационные системы, проектирование информационных систем, корпоративные информационные системы.

Цитирование: Набатов, А.Н. Онтология объединения информационных подсистем: принципы и примеры / А.Н. Набатов, И.Э. Ведениянин // Онтология проектирования. – 2020. – Т.10, №2(36). – С.218-231. – DOI: 10.18287/2223-9537-2020-10-2-218-231.

Введение

Современный мир существует в информационном пространстве, где взаимодействует огромное количество информационных систем (ИС), решающих самые разнообразные задачи. Правительства принимают программы цифровизации¹, население живёт в «сетях» – это ведёт к необходимости объединения ИС. Практически все современные ИС имеют тот или иной механизм интеграции с окружающей экосистемой.

При решении задачи автоматизации в некоторой предметной области (ПрО), формулируется общая цель автоматизации, а также задаются некоторые характеристики ИС. При этом выбирается решение из множества существующих либо создаётся новое решение, фактически реализуя верхнюю ветвь пути моделирования и реализации, представленного на рисунке 1. В процессе те-



Рисунок 1 – Возможные пути моделирования и представления предметной области

¹ См. например, программа «Цифровая экономика Российской Федерации» – <http://government.ru/nagovclassifier/614/events/>.

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