

# Formal definition of Business rules by Grammar systems

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## Abstract

This article will be focused on how to make a formal definition of business rules by the grammar systems. At the beginning we focused on specification of business rules by grammar systems. This definition will be done in an agile environment. We focused on advantages and disadvantages of selected grammar systems in formulation business rules. At the end, we will focus on other options which could be used for formal definition of the business rules.

### Business rules

Business rules are the ultimate levers with which business management is able to guide and control the business. The business's rules are the means by which an organization promotes policy, implements competitive strategy, and complies with legal obligations. Basic level of business rules is very often specified by nature language. For the vast majority of our daily chores we make those decisions based on the set of experiences and philosophies that we have developed and evolved over time. That is a reason we should use formal definition to make statement clear, because nature language is very often unclear and could be ambiguous.

### Grammar systems

Grammar systems in the world essentially represent a set of grammars working together. If the calculation runs on multiple stations, the stations are synchronized using the protocol to produce one language. The reasons why translation happens in more places can be numerous. Examples include computer complexity or increase the generative power. It is clear that there will be a key role just play interplay of individual system elements. There are two basic types of grammar systems, cooperating distributed (CD) grammar systems and parallel communicating (PC) grammar systems.

### Based on:

DOLÍHAL, Luděk. *Gramatické systémy - teorie a aplikace* [online]. 2010 [cit. 2014-10-13]. FIT VUT Brno.

VON HALLE, Barbara. *The business rule revolution: running business the right way* [online]. Cupertino, CA: Happy About, c2006 [cit. 2014-10-13]. xxviii, 291 s. ISBN 978-1-60005-013-8. FIT VUT Brno.