Component Based Development in Systems Integration

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Abstract: Software development in systems integration projects is still reliant on craftsmanship of highly skilled workers. To make such projects more profitable, an industrialized production, characterized by high efficiency and quality, seems inevitable. While first milestones of software industrialization have recently been achieved, it is questionable if these can be applied to the field of systems integration as well. Besides specialization, standardization and systematic reuse is one of the key concepts of industrialization, represented by component-based development (CBD). The present work analyses a CBD approach suitable for large scale, enterprise wide systems, while considering the particularities found in the field of systems integration. The outcome is an alignment of this slightly adapted approach with organizational requirements found in the industrial principle of specialization, as well as entities found in a typical enterprise application integration project.