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Abstract	Designing and developing new aircraft systems is time-consuming and expensive. An essential support in development of aircraft system models is the visualization of aircraft system properties. The model-based design supports this visualization. However, the modeling tools available so far do not support the modeling process in detail. They are rather limited in integration of different system models and in representation of complexity. This paper analyzes possible causes and resumes present results and approaches from different aspects in aircraft design and related topics.