

Siemens IBIS group

SIEMENS

Introduction



The SIEMENS IBIS GROUP is formed by members of different Siemens divisions. This group has defined a **common quality level for ibis models** which is **required by all SIEMENS divisions**.

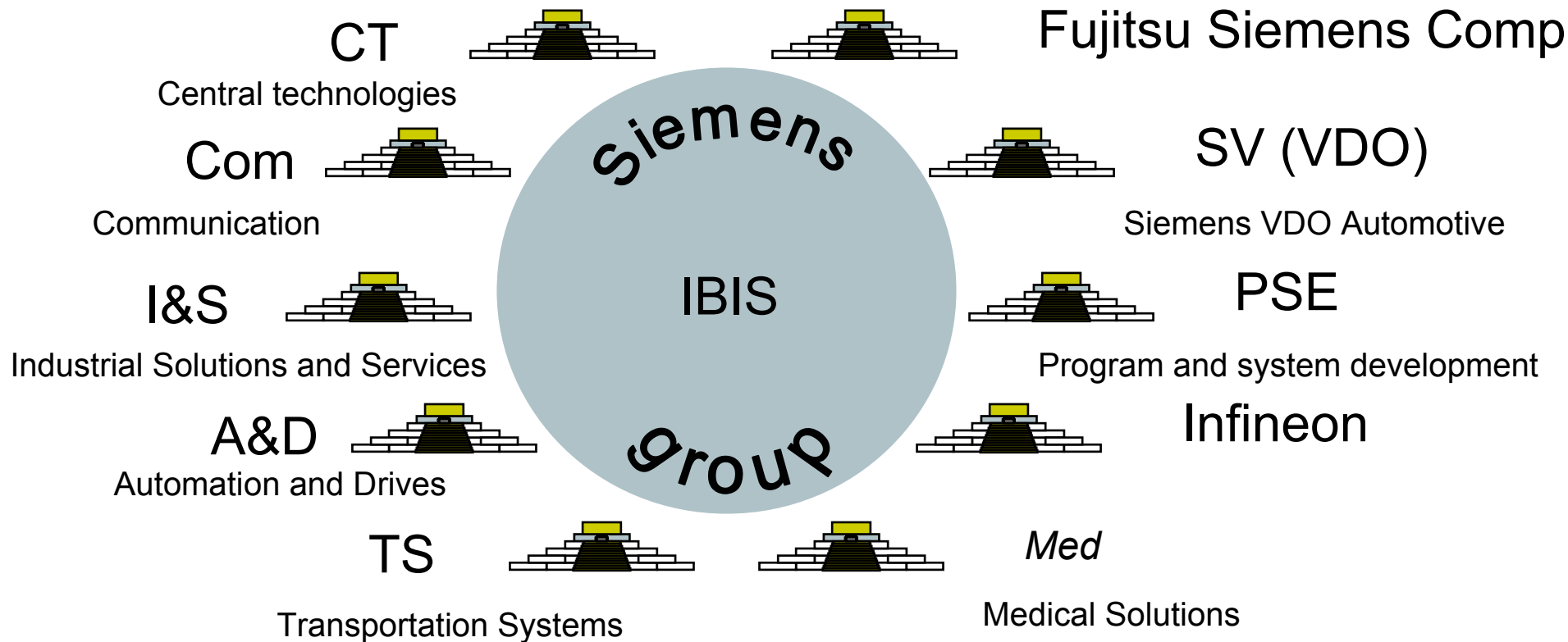


SIEMENS design flows include the **board/system simulation as a main topic** to support **design to cost** and **time to market** initiatives. The quality of the used models primarily determines the simulation results.



In this light of responsibility we expect from our IC vendors **high IBIS model availability** and as well as **advanced IBIS modelling know how**

Members



Goals of Siemens IBIS Group



Setup of requirements

With explanations how to get these keywords/parameters



IBIS quality checklist

In use for model check



Information interchange in Siemens

Don't check the models twice

Use different SI-tools, but the same IBIS-models

Model / vendor experiences

Siemens requirements

- We expect that a model request is answered at least after 2 working days (receipt of model request)
- The model has to be delivered within 2 weeks
- Questions regarding the model should be answered within 1 week
- For each Product Change Notification (PCN) it must be stated whether a new model release is necessary
- For new die-shrinks new models have to be delivered
- Special models for different process/voltage/temperature settings (PVT) should also be delivered on request

IBIS requirements

- Following keywords and parameters which are optional in the IBIS-specification have to be supplied, according to technology specification:
 - Waveforms
 - Overshoot parameters
 - Package-information for each pin of the device
- Typ / Min / Max values for all entries are mandatory.
The relation $\text{min} < \text{typ} < \text{max}$ has to be satisfied as it is stated in the IBIS-specification.
- IBIS data have to reflect closely the content of the corresponding data book entries.
- All delivered IBIS models have to fulfill at least quality level1 as described by the IBIS quality specification. → more Info on www.sisoft.com/ibis-quality