IX SPeeD® V5 Suite
Conquering Product Development Challenges

SPD answers the needs of companies that require a better method for dealing with changes throughout the product lifecycle.

All resources involved can effectively communicate design changes and improve product quality and innovation.

Improving the Way You Deal with Changes

Throughout the Work in Progress (WIP) phase of product development, design changes are inevitable and often painful to deal with. The key to overcoming the challenges experienced during this phase is finding a way to effectively deal with change. In fact, there are three significant impediments associated with changes that negatively affect the design process. It is these impediments that may cost a company time and money, negatively impact a production schedule and prevent innovation:

- Understanding an existing design and why it was built in a certain way
- Applying changes without sacrificing the integrity of the design
- Communicating changes to the rest of the design team

Supporting Productivity, Agility, and Innovation

The potential for productivity gains across the full enterprise of product development has never been greater. The impediments discussed above represent an inertia for companies that strive to quickly react to continuous customer feedback and promote innovation. ImpactXoft's solution provides the opportunity to dramatically drive down design cycle times and design costs, providing companies the agility they need to foster innovative, customer-centric product solutions.

The IX SPeeD Suite from ImpactXoft is the first and only solution enabling true Simultaneous Product Development (SPD), helping you to activate and leverage required resources, no matter where they are or when they are available. Two new methodologies are introduced with the IX SPeeD Suite that help you minimize and manage the risks associated with making changes during the WIP phase:

Capturing Design Intelligence through IX Functional Modeling

The unique IX Functional Modeling methodology shifts geometry creation to the background so that you can focus on the functions and behaviors of design elements and improve your overall understanding of a design. You stay true to your design intent while the geometric model is generated automatically to meet your requirements. Along with this shift in focus comes a more effective solution for change propagation that ensures designs are built faster and more efficiently than with traditional modeling approaches.

There are three unique aspects associated with IX Functional Modeling:

- *Behavior-Driven Design*

  Introduces features that encapsulate industry-specific behaviors to give you the freedom to focus on what to design rather than how to design it

  Increases productivity and overall understanding of the design because fewer features are necessary to capture the desired design behavior

- *Order Independence*

  Provides the flexibility you need to concentrate on the functions and behaviors of your design elements and not the order in which you create them

  Removes the need to undo operations or reorder features when making necessary changes at anytime in the design process

- *Effective Change Propagation*

  The built-in, associative intelligence of functional entities ensures that design changes can be made quickly and safely at any time during the work in progress

  Eliminates the need to remodel or rework due to a poor understanding of an existing design

Functional Modeling enables users to concentrate on what they want to model, not how to model it.

Communicating Design Intelligence through IX Instant Participation

The IX Instant Participation methodology represents the truest form of co-development between all participants involved in a product's development. It provides the tools necessary to authorize and control changes made during iterative design sessions while maximizing team interaction and eliminating the error-prone step of incorporating changes from notes and markups. There are several unique aspects of the IX Instant Participation methodology:

- *Parallel Design*

  Represents the ideal method for handling a work in progress

  Models can be defined, revised and improved by project participants working in parallel from different product perspectives

  You can focus only on the areas that are relevant to your role and expertise and have a personal view of the work in progress

- *Simple Share and Merge Cycle*

  You can share model updates that encapsulate design behaviors with interested project participants who can then merge the updates into their working model without recreating design rules and behaviors

  Supports the exchange of granular changes to the design without the need to shuffle files back and forth and without the bottlenecks and redundancies that result from a linear, sequential method of sharing information

- *Real-Time and On-Demand Modes*

  You can work online simultaneously with other project participants, or you can work at your own pace, in your own place, sharing and merging updates on demand

  You are in control: you can decide when to join, resume or end your SPeeD sessions, when to share and merge updates, and which design changes to incorporate. There is no need to share a common design session with others

- *Visibility and Traceability*

  Exchanged updates are maintained and organized so that the reason for, source of, and impact of design changes can be easily exposed. Multiple design alternatives can capture tacit design knowledge that would otherwise be lost.

  Managers can monitor the design evolution by examining the updates shared by all participants

The unique IX technology for instant participation enables the most effective means of interaction among all resources involved in a product's development.