

Abstract

The purpose of this project to migrate customer data from the I-deas environment into the NX environment preserving customer investment and intellectual capital held within the data and maintaining continuity in the workflows and process. A feature based or native file migration provides a direct database conversion of models with the feature history tree intact-all original geometry and geometric created in the original model are recreated in the specified target software application. For if the source system is IDEAS and the target system is Unigraphics, all of the geometry and geometric features contained in IDEAS would be re-created in Unigraphics.

Feature data migration allows users to move design between various CAD systems with parametric history intact. In addition to being modifiable, they are also accurate. We compare every piece of geometry in the target file against the source file. Discrepancies, if any, are identified and rectified. The result is translated files that are fully look and function as though they were created in the target CAD system. The method completely bypasses the use of natural files, or other similar topical methods. The result ate true native files. A native file with an imported geometry. Usually we can add protrusions or cuts but it is very difficult to redefine, move, resize, or shape them. A feature based or direct conversion would allow us to manipulate the geometry with all of the functions and capabilities available to our specific CAD system.