

# National Aeronautics and Space Administration (NASA).

## Background

NASA's fleet of shuttles is not supported by CAD generated engineering documentation. In the fall of 2002, NASA conducted a feasibility study, to determine the cost associated with the conversion of over one million engineering drawings associated to NASA's shuttle fleet into CATIA version 5. NASA tasked Thinkpath with the creation of parametric solid models associated to the avionics bay. Additionally, NASA requested the selected supplier to create a process to track all of the revisions associated to the avionics bay.

## Thinkpath Solution

Thinkpath created a team of CAD designers proficient with CATIA Version 5 to provide engineering support for this endeavor. Thinkpath's team created a parametric solid model for each drawing revision. Additionally, Thinkpath created an XML database that was associated to each drawing that contained a detailed description of each revision. This enabled NASA to quickly view each revision level as well as review the associated changes to each drawing.

## Benefits

Thinkpath was able to create the entire program within the tight time constraints as well as provide user-friendly solutions to NASA's requirements.

