

# Axient's Product Development Center (PDC)

## Executive Summary

The PDC is a software development and maintenance organization that provides innovative software solutions and services for civil, commercial, and government agencies and organizations. The PDC utilizes modern, vetted, and highly effective development methodologies such as pure Agile/SCRUM and SecDevOps to deliver the right product at the right time. The PDC provides software solutions addressing customer needs to include rapid prototypes, research and development (R&D), operational systems, analysis and investigations, and consulting services.

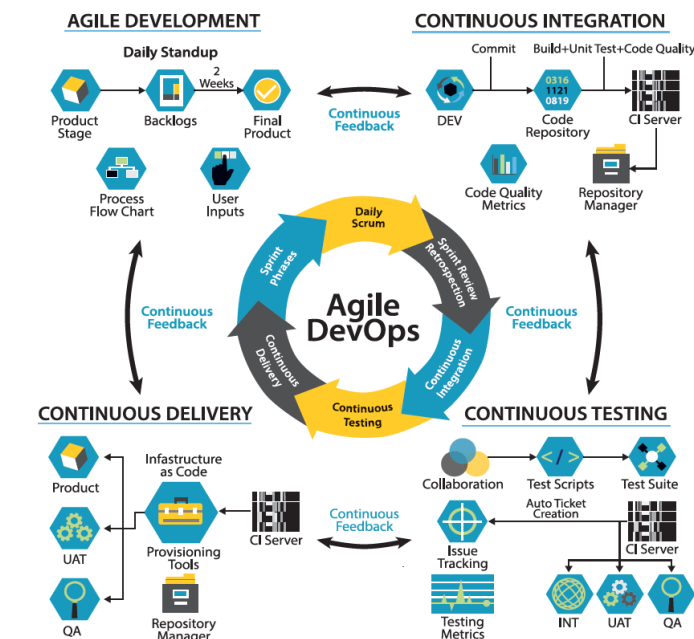
## Processes and Procedures

CMMI/DEV Maturity Level 3 - PDC processes appraised for software development.

Agile manner using SCRUM methodologies with continuous stakeholder interaction.

SecDevOps - Integration of product security concepts throughout the development lifecycle.

V&V - Verification and validation include peer review of code, unit and system testing prior to delivery.



## MISSION STATEMENT

A leading-edge, world-class capability focused on fostering rapid industry advancement through safe, reliable, innovative, and cost-effective solutions.

## SERVICES

- Launch and reentry mission risk analysis
- AFSS MDL rule generation, test and V&V
- Range operations and flight safety training
- Software and product testing
- Cybersecurity implementation and validation
- FAA safety approval

## CAPABILITIES

- Experience with JavaFX, Cesium, C++, Matlab, Jira
- Database development and administration
- Application and cloud-based software and algorithm development and deployment
- System definition, implementation, integration, verification, and validation

## SECURITY

Compliance with CWE, CVW, and OWASP security policy through continuous integration

RMF tailoring and implementation, specifically 800-171 compliance

## ACCOMPLISHMENT

The PDC was recently granted FAA Commercial Space Transportation Safety Approval. This approval was for the PDC's ability to provide its Flight Analyst Workstation (FAWS) as a component of the process to build flight rules, generate the mission data load (MDL), and to verify the MDL prior to loading it onto a launch vehicle's autonomous flight safety unit (AFSU)