

Template Analysis Interface Module (AIM)

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Contents

1	Introduction	1
1.1	Template AIM Overview	1
2	Geometry Representation and Analysis Intent	1
3	AIM Inputs	1
4	AIM Shareable Data	1
5	AIM Outputs	2

1 Introduction

1.1 Template AIM Overview

A module in the Computational Aircraft Prototype Syntheses (CAPS) has been developed to interact with the

The Template AIM provides the CAPS users with the ability to generate

An outline of the AIM's inputs and outputs are provided in [AIM Inputs](#) and [AIM Outputs](#), respectively.

The accepted and expected geometric representation and analysis intentions are detailed in [Geometry Representation and Analysis Intent](#).

Details of the AIM's shareable data structures are outlined in [AIM Shareable Data](#) if connecting this AIM to other AIMS in a parent-child like manner.

2 Geometry Representation and Analysis Intent

The geometric representation for the Template AIM requires the body(ies) be either face body(ies) (FACEBODY), solid body(ies) (SOLIDBODY) or non- and manifold sheet body(ies) (SHEETBODY). Furthermore, the attribute capsIntent should be set to CFD and STRUCTURE analyses, or ALL.

3 AIM Inputs

The following list outlines the Template options along with their default value available through the AIM interface.

- **InputVariable = False**
Description of variable.

4 AIM Shareable Data

The Template AIM has the following shareable data types/values with its children AIMS if they are so inclined.

- **Body_Count**
Example shareable data returned in **** format.

5 AIM Outputs

The following list outlines the Template AIM outputs available through the AIM interface.

- **OutputVariable** = True if a, False if not.