

CATIA for Academia

Version 5 Release 18

Glossary

- **CATIA V5R18**: CATIA Version 5 Release 18
- **ED2** : EDUCATION 2 configuration for Academia
- **DIC** : DISCOVER configuration for Academia

EDUCATION 2 configuration (ED2) for Academics

115 products / CATIA V5 domains:

19 Mechanical Design

16 Shape Design & Styling

25 Product Synthesis

27 Equipment & Systems Engineering

6 Analysis

13 Machining

11 Infrastructure

ED2 configuration in CATIA V5R18 1/3

Mechanical Design

1. CATIA - Composites Engineering 2 (CPE)
2. CATIA - Composites Design for Manufacturing 2 (CPM)
3. CATIA - 2D Layout for 3D Design 1 (LO1)
4. CATIA - Assembly Design 2 (ASD)
5. CATIA - Weld Desing 1 (WD1)
6. CATIA - Part Design 2 (PDG)
7. CATIA - Part Design Feature Recognition (FR1)
8. CATIA - Functional Molded Parts 2 (FMP)
9. CATIA - Cast & Forged Part Optimizer 2 (CFO)
10. CATIA - Wireframe & Surface 1 (WS1)
11. CATIA - Generative Drafting 2 (GDR)
12. CATIA - Interactive Drafting 1 (ID1)
13. CATIA - 3D Functional Tolerancing & Annotation 2 (FTA)
14. CATIA - Structure Design 1 (SR1)
15. CATIA - Mold Tooling Design 2 (MTD)
16. CATIA - Core & Cavity Design 2 (CCV)
17. CATIA - Healing Assistant 1 (HA1)
18. CATIA - Sheetmetal Design 2 (SMD)
19. CATIA - Sheetmetal Production 1 (SH1)

Shape Design and Styling Solutions

1. CATIA - Photo Studio 2 (PHS)
2. CATIA - Realistic Shape Optimizer 2 (RSO)
3. CATIA - Real Time Rendering 2 (RTR)
4. CATIA - Photo Studio Optimizer (PSO)
5. CATIA - Generative Shape Design 2 (GSD)
6. CATIA - Generative Shape Design Optimizer 2 (GSO)
7. CATIA - Developed Shape 1 (DL1)
8. CATIA - Freestyle Shaper 2 (FSS)
9. CATIA - Freestyle Optimizer 2 (FSO)
10. CATIA - Freestyle Profiler 2 (FSP)
11. CATIA - Freestyle Sketch Tracer 1 (FSK)
12. CATIA - Imagine & Shape 2 (IMA)
13. CATIA - Digitized Shape Editor 2 (DSE)
14. CATIA - Quick Surface Reconstruction 2 (QSR)
15. CATIA - Shape Sculptor 2 (DSS)
16. CATIA - Automotive Body in White Templates 2 (ABT)

ED2 configuration in CATIA V5R18 2/3

Product Synthesis Solutions

1. CATIA - Knowledge Advisor 2 (KWA)
2. CATIA - Knowledge Expert 2 (KWE)
3. CATIA - Knowledge Engineering Optimizer 2 (PEO)
4. CATIA - Product Knowledge Template Definition 2 (PKT)
5. CATIA - Business Process Knowledge Template 2 (BK2)
6. CATIA - Product Function Description 2 (PFD)
7. CATIA - DMU Navigator 2 (DMN)
8. CATIA - DMU Space Analysis 2 (SPA)
9. CATIA - DMU Fitting Simulator 2 (FIT)
10. CATIA - DMU Kinematics Simulator 2 (KIN)
11. CATIA - DMU Optimizer 2 (DMO)
12. CATIA - DMU Engineering Analysis Review 2 (ANR)
13. CATIA - DMU Fastening Review 2 (FAR)
14. CATIA - DMU Dimensioning & Tolerancing Review 1 (DT1)
15. CATIA - DMU Space Engineering Assistant 2 (SPE)
16. CATIA - DMU Composites Review 2 (CPR)
17. CATIA - Flex Physical Simulation 2 (FLX)
18. CATIA - Human Builder 2 (HBR)
19. CATIA - Human Measurement Editor 2 (HME)
20. CATIA - Human Posture Analysis 2 (HPA)
21. CATIA - Human Activity Analysis 2 (HAA)
22. CATIA - Human Anthropology Catalogs (HTC)
23. CATIA - Human Preferred Angles Catalogs 2 (HAC)
24. CATIA - Vehicle Occupant Accommodation 2 (VOA)
25. CATIA - Human Posture Catalogs (HPC)

Equipment and Systems Engineering Solutions

1. CATIA - Circuit Board Design 1 (CBD)
2. CATIA - Systems Routing 1 (SRT)
3. CATIA - Systems Space Reservation 2 (SSR)
4. CATIA - Electrical 3D Design & Documentation 1 (EC1)
5. CATIA - Electrical Systems Functional Definition 2 (EFD)
6. CATIA - Electrical Library 2 (ELB)
7. CATIA - Electrical Wire Routing 2 (EWR)
8. CATIA - Electrical Harness Installation 2 (EHI)
9. CATIA - Electrical Harness Flattening 2 (EHF)
10. CATIA - Electrical Connectivity Diagrams 2 (ELD)
11. CATIA - Electrical Cableway Routing 2 (ECR)
12. CATIA - Systems Diagrams 2 (SDI)
13. CATIA - Piping & Instrumentation Diagrams 2 (PID)
14. CATIA - HVAC Diagrams 2 (HVD)
15. CATIA - HVAC Design 2 (HVA)
16. CATIA - Piping Design 2 (PID)
17. CATIA - Tubing Design 2 (TUB)
18. CATIA - Tubing Diagrams 2 (TUD)
19. CATIA - Waveguide Design 2 (WAV)
20. CATIA - Waveguide Diagrams 2 (TUD)
21. CATIA - Hanger Design 2 (HGR)
22. CATIA - Raceway & Conduit Design 2 (RCD)
23. CATIA - Equipment Arrangement 2 (EQT)
24. CATIA - Structure Functional Design 2 (SFD)
25. CATIA - Ship Structure Detail Design 2 (SDD)
26. CATIA - Compartment & Access 2 (CNA)
27. CATIA - Plant Layout 1 (PLO)

ED2 configuration in CATIA V5R18 3/3

Analysis

1. CATIA - Generative Part Structural Analysis 2 (GPS)
2. CATIA - Generative Assembly Structural Analysis 2 (GAS)
3. CATIA - Generative Dynamic Response Analysis 2 (GDY)
4. CATIA - Elfini Structural Analysis 2 (EST)
5. CATIA - FEM Surface 2 (FMS)
6. CATIA - FEM Solid 2 (FMD)

Manufacturing

1. CATIA - Machine Tool Builder 2 (MBG)
2. CATIA - Machine Tool Simulation 2 (MSG)
3. CATIA - NC Manufacturing Review 2 (NCG)
4. CATIA - Prismatic Machining Preparation Assistant 2 (MPA)
5. CATIA - Prismatic Machining 2 (PMG)
6. CATIA - 3 Axis Surface Machining 2 (SMG)
7. CATIA - Multi-Axis Surface Machining 2 (MMG)
8. CATIA - Multi Pocket Machining 2 (MPG)
9. CATIA - Advanced Machining 2 (AMG)
10. CATIA - Lathe Machining 2 (LMG)
11. CATIA - Multi-slide Lathe Machining 2 (MLG)
12. CATIA - NC Manufacturing Verification 2 (NVG)
13. CATIA - Rapid Prototyping 2 (STL)

Infrastructure

1. CATIA – Digital Product Rights Manager 1 (RM1)
2. CATIA - Product Data Filtering 1 (DF1)
3. CATIA - Object Manager 2 (COM)
4. CATIA - CADAM Interface 1 (CC1)
5. CATIA - IGES Interface 1 (IG1)
6. CATIA - Step Core Interface 1 (ST1)
7. CATIA - Strim/Styler to CATIA Interface 2 (STC)
8. CATIA - V4 Integration 2 (V4I)
9. CATIA - Instant Collaborative Design 1 (CD1)
10. CATIA - ENOVIAvpm Supply Chain Engineering Exchange 2 (EWE)
11. CATIA - PPR xPDM Gateway 1 (PX1)

DISCOVER configuration (DIC) for Academia based on P1 and P2 levels of CATIA V5R18

26 products / CATIA V5 domains:

- 8 in Mechanical Design***
- 7 in Shape Design & Styling***
- 2 in Product Synthesis***
- 1 in Equipment & Systems Engineering***
- 1 in Analysis***
- 4 in Machining***
- 3 in Infrastructure***

DISCOVER configuration in CATIA V5R18

Mechanical Design

1. CATIA - Assembly Design 2 (ASD)
2. CATIA - Part Design 2 (PDG)
3. CATIA - Functional Molded Parts 2 (FMP)
4. CATIA - Wireframe & Surface 1 (WS1)
5. CATIA - Generative Drafting 2 (GDR)
6. CATIA - Interactive Drafting 1 (ID1)
7. CATIA - Structure Design 1 (SR1)
8. CATIA - Sheetmetal Design 2 (SMD)

Shape Design and Styling Solutions

1. CATIA - Imagine & Shape 2 (IMA)
2. CATIA - Free Style Shaper 2 (FSS)
3. CATIA - Free Style Sketch Tracer 1 (FSK)
4. CATIA - Generative Shape Design 2 (GSD)
5. CATIA - Real Time Rendering 2 (RTR)
6. CATIA - Photo Studio 2 (PHS)
7. CATIA - Photo Studio Optimizer 2 (PSO)

Product Synthesis Solutions

1. CATIA - DMU Space Analysis 2 (SPA)
2. CATIA - DMU Kinematics Simulator 2 (KIN)

Equipment & System Engineering

1. CATIA - Plant Layout 1 (PLO)

Analysis

1. CATIA - Generative Part Structural Analysis 2 (GPS)

Manufacturing

1. CATIA - NC Manufacturing Review 2 (NCG)
2. CATIA - Prismatic Machining 2 (PMG)
3. CATIA - Lathe Machining 2 (LMG)
4. CATIA - Rapid Prototyping 2 (STL)

Infrastructure

1. CATIA - IGES Interface 1 (IG1)
2. CATIA - Object Manager 2 (COM)
3. CATIA - Instant Collaborative Design 1 (CD1)