Table version: 2019 R1 Version Date: 4/9/19
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	License Feature Name(s)	License Managers					Structural & Fluids Solver Capability																		Discovery				
		ANSYS License Manager (ansyslmd)	*Ansoft License Manager (ansoftd, legacy)*	Apache License Manager (apacheda)	*Reaction Design License Manager (Legacy)*	Esterel License Manager (estereld)	ANSYS AIM Pro	ANSYS Mechanical Enterprise (Includes Autodyn, Fatigue Module, Asas, Aqwa)	ANSYS Rigid Dynamics (Rigid Body Dynamics)	*ANSYS Emag (legacy, replaced by ANSYS Maxwell)*	*ANSYS Multiphysics capability (includes LF Emag, HF Emag & FLOTRAN)*	ANSYS CFX	ANSYS Mechanical User Programmable Features (USER300 & related commands)	ANSYS Fluent (Including NOx, Fiber, MHD, Population Balance Modules)	ANSYS Fluent Fuel Cell Module	ANSYS Polyflow	ANSYS LS-DYNA	ANSYS Icepak	ANSYS CHEMKIN-Pro, FORTE, Reaction Workbench, Encrypted Non-Member	ANSYS FENSAP-ICE, Optigrid and Viewmerical	*ANSYS Asas - All modules except Concrete & Panel (Legacy, replaced by Mechanical Enterprise)*	*ANSYS Aqwa Suite with Coupled Cable Dynamics (Legacy, replaced by Mechanical Enterprise)*	ANSYS Additive Suite & Additive Print	ANSYS ROM Builder	ANSYS SpaceClaim Direct Modeler (includes Faceted Data Toolkit)	Discovery SpaceClaim	Discovery AIM	Discovery Live	Discovery Ultimate Enterprise
ACADEMIC STRUCTURAL & FLUIDS PRODUCTS	
ACADEMIC ASSOCIATE	
ANSYS Academic Associate Mechanical and CFD	aa_a, aa_mcad	•					•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•				•
ANSYS Academic Associate CFD	aa_a_cfd, aa_mcad	•					•					•		•	•	•		•	•	•		•		•	•				•
ANSYS Academic Associate Chemical Kinetics (legacy)	*Multiple features*	•																	•										
ANSYS Academic Associate HPC (Including HPC Workgroup)	aa_a_hpc	•					•		•	•	•		•																
ACADEMIC RESEARCH	
ANSYS Academic Research Mechanical and CFD	aa_r, aa_mcad	•					•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•				•
ANSYS Academic Research Mechanical	aa_r_me, aa_mcad	•					•	•	•				•									•	•		•				•
ANSYS Academic Research CFD	aa_r_cfd, aa_mcad	•					•					•		•	•	•		•	•	•		•		•	•				•
ANSYS Academic Research Chemical Kinetics (legacy)	*Multiple features*	•																	•										
ANSYS Academic Research Polyflow (legacy)	*aa_r_pf, aa_mcad*	•														•													
ANSYS Academic Research Autodyn (legacy)	*aa_r_ad, aa_mcad*	•																											
ANSYS Academic Research Electronics Thermal (legacy)	*aa_r_et, aa_mcad*	•																•											
ANSYS Academic Research Offshore/Marine (legacy)	*aa_r_om, aa_mcad, aa_r_aql*	•																			•	•								
ANSYS Academic Research HPC (Including HPC Workgroup)	aa_r_hpc	•					•		•	•	•		•				•										
ANSYS Academic Research LS-DYNA	aa_r_dy, aa_mcad	•															•												
ANSYS Academic Research LS-DYNA HPC	aa_dy_p	•															•												
ACADEMIC TEACHING	
ANSYS Academic Teaching Mechanical and CFD	aa_t_a, aa_mcad, aa_ds	•					•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•				•
ANSYS Academic Teaching Introductory (legacy)	*aa_t_i, aa_mcad, aa_ds*	•						•	•	•	•	•	•	•	•	•		•	•	•					•				
ANSYS Academic Teaching Mechanical	aa_t_me, aa_mcad, aa_ds	•					•	•	•				•									•	•		•				•
ANSYS Academic Teaching CFD	aa_t_cfd, aa_mcad	•					•					•		•	•	•		•	•	•		•		•	•				•
ANSYS Academic Teaching Chemical Kinetics (legacy)	*Multiple features*	•																	•										
ACADEMIC STUDENT	
Discovery AIM Student	aa_s_aim																										•		
ANSYS Student	aa_t_i						•	•	•	•	•	•	•	•	•			•	•				•	•				
Discovery Live Student	n/a																											•	
ACADEMIC TOOLBOX	
ANSYS Academic Preprocessing Tools (renamed from Meshing Tools)	aa_mesh, aa_mcad	•																											
ANSYS Academic EnSight Post Processing Tools (legacy)	Multiple features	•																											
ANSYS Academic EKM Shared (legacy)	*ekm_desktop*	•																											
ANSYS Academic CFD Turbo Tools (legacy)	*aa_turbo*	•																											
ANSYS Academic Fuel Cell Tools (legacy)	*aa_fcell*	•													•														
ANSYS Academic Composite Tools (legacy)	*acpreppost*	•																											
ANSYS Academic SpaceClaim Tools (legacy)	*a_spaceclaim_dirmod*	•																							•				
ANSYS Academic FENSAP Tools (legacy)	*Multiple features*				•																								
ACADEMIC ELECTRONICS & SYSTEMS PRODUCTS	
ACADEMIC ASSOCIATE	
ANSYS Academic Associate Electronics Suite	Multiple features		•	•														•							•				
ANSYS Academic Associate HF	Multiple features		•																•							•				
ANSYS Academic Associate EM	Multiple features		•																•							•				
ANSYS Academic Associate Electronics HPC (Including HPC Workgroup)	Multiple features		•																											
ANSYS Academic Associate Redhawk	Multiple features			•																										
ANSYS Academic Associate Powerartist	Multiple features			•																										
ANSYS Academic Teaching SCADE	Multiple features					•																								
ACADEMIC RESEARCH	
ANSYS Academic Research Electronics Suite	Multiple features		•	•														•							•				
ANSYS Academic Research HF	Multiple features		•																•							•				
ANSYS Academic Research EM	Multiple features		•																•							•				
ANSYS Academic Research Electronics HPC (Including HPC Workgroup)	Multiple features		•																											
ANSYS Academic Research Redhawk	Multiple features			•																										
ANSYS Academic Research Powerartist	Multiple features			•																										
ANSYS Academic Teaching SCADE	Multiple features					•																								
ACADEMIC TEACHING	
ANSYS Academic Teaching Electronics Suite	Multiple features		•	•														•							•				
ANSYS Academic Teaching HF	Multiple features		•																•							•				
ANSYS Academic Teaching EM	Multiple features		•																•							•				
ANSYS Academic Teaching Redhawk	Multiple features			•																										
ANSYS Academic Teaching Powerartist	Multiple features			•																										
ANSYS Academic Teaching SCADE	Multiple features					•																								
ACADEMIC MULTIPHYSICS CAMPUS SOLUTION PRODUCTS	
ANSYS Academic Multiphysics Campus Solution (all versions)	Multiple features	•	•	•			•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•				•

	Electronics & Systems Solver Capability																		Solver Numerical Limits											
	ANSYS Electronics Desktop (Includes RMXprt, PExprt)	ANSYS HFSS Solver (FEM frequency, time domain & MoM frequency domain solver)	ANSYS HFSS SBR+ Solver	ANSYS HFSS Phyical Optics Solver	ANSYS HFSS Fullwave Spice Export	ANSYS Q3D Extractor 3D solver(2D & 3D quasi static EM field simulation & RLCG extraction)	ANSYS RF Option (DC, Harmonic balance, Transient, Oscillator, TV Noise, filter synthesis, 2.5D MoM)	ANSYS SI Option (DC, Quickeye, Verifye, IBIS-AMII, Transient, run HSPICE netlists, 3D transient)	ANSYS SIwave (Power & SI: Hybrid, full-wave FEM for DC-Static, AC- freq domain & EMI time domain)	ANSYS SIwave DC (DC power analysis, 3D FEM for DC static)	ANSYS SIwave PI (DC & PI: DC- static, AC- steady state, PI Advisor)	ANSYS Maxwell (Electrostatic, magnetostatic, Transient, AC, Vector Hysteresis)	*ANSYS Simplorer Advanced (legacy)*	ANSYS RedHawk NX	ANSYS RedHawk SD	ANSYS PowerArtist XP	ANSYS PowerArtist PT	SCADE System, Suite, Display and LifeCycle	Unlimited!	Numerical problem size limits	32K nodes/element - Structural, Thermal & AUTODYN	100K nodes/element - AIM Structural & Thermal	256K nodes/element - Structural, Thermal & AUTODYN	50K nodes/element - AIM Low Frequency Electromagnetics	64K nodes/element - Low Frequency Electromagnetics	512K nodes/element - Low Frequency Electromagnetics	512K nodes/element - High Frequency (Full Wave) Electromagnetics	1024K nodes/element - High Frequency (Full Wave) Electromagnetics	512K nodes/element - Fluid Dynamics (CFX & FLUENT)	1024K nodes/element - AIM Fluid Dynamics
ACADEMIC STRUCTURAL & FLUIDS PRODUCTS
ACADEMIC ASSOCIATE
ANSYS Academic Associate Mechanical and CFD																				•											
ANSYS Academic Associate CFD																				•											
ANSYS Academic Associate Chemical Kinetics (legacy)																				•											
ANSYS Academic Associate HPC (Including HPC Workgroup)																				•											
ACADEMIC RESEARCH
ANSYS Academic Research Mechanical and CFD																				•											
ANSYS Academic Research Mechanical																				•											
ANSYS Academic Research CFD																				•											
ANSYS Academic Research Chemical Kinetics (legacy)																				•											
ANSYS Academic Research Polyflow (legacy)																				•											
ANSYS Academic Research Autodyn (legacy)																				•											
ANSYS Academic Research Electronics Thermal (legacy)																				•											
ANSYS Academic Research Offshore/Marine (legacy)																				•											
ANSYS Academic Research HPC (Including HPC Workgroup)																				•											
ANSYS Academic Research LS-DYNA																				•											
ANSYS Academic Research LS-DYNA HPC																				•											
ACADEMIC TEACHING
ANSYS Academic Teaching Mechanical and CFD																				•			•			•		•	•	
ANSYS Academic Teaching Introductory (legacy)																				•	•				•		•		•	
ANSYS Academic Teaching Mechanical																				•			•							
ANSYS Academic Teaching CFD																				•									•	
ANSYS Academic Teaching Chemical Kinetics (legacy)																				•											
ACADEMIC STUDENT
Discovery AIM Student																				•		•		•						•
ANSYS Student																				•	•				•		•		•	
Discovery Live Student																				•											
ACADEMIC TOOLBOX
ANSYS Academic Preprocessing Tools (renamed from Meshing Tools)																				•											
ANSYS Academic EnSight Post Processing Tools (legacy)																				•											
ANSYS Academic EKM Shared (legacy)																				•											
ANSYS Academic CFD Turbo Tools (legacy)																				•											
ANSYS Academic Fuel Cell Tools (legacy)																				•											
ANSYS Academic Composite Tools (legacy)																														
ANSYS Academic SpaceClaim Tools (legacy)																														
ANSYS Academic FENSAP Tools (legacy)																														
ACADEMIC ELECTRONICS & SYSTEMS PRODUCTS
ACADEMIC ASSOCIATE
ANSYS Academic Associate Electronics Suite	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•											
ANSYS Academic Associate HF	•	•	•	•	•	•	•	•	•	•	•								•											
ANSYS Academic Associate EM	•					•						•	•						•											
ANSYS Academic Associate Electronics HPC (Including HPC Workgroup)																				•											
ANSYS Academic Associate Redhawk														•					•											
ANSYS Academic Associate Powerartist																•			•											
ANSYS Academic Teaching SCADE																		•	•											
ACADEMIC RESEARCH
ANSYS Academic Research Electronics Suite	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•											
ANSYS Academic Research HF	•	•	•	•	•	•	•	•	•	•	•								•											
ANSYS Academic Research EM	•					•						•	•						•											
ANSYS Academic Research Electronics HPC (Including HPC Workgroup)																				•											
ANSYS Academic Research Redhawk														•					•											
ANSYS Academic Research Powerartist																•			•											
ANSYS Academic Teaching SCADE																		•	•											
ACADEMIC TEACHING
ANSYS Academic Teaching Electronics Suite	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•		•											
ANSYS Academic Teaching HF	•	•	•	•	•	•	•	•	•	•	•								•											
ANSYS Academic Teaching EM	•					•						•	•						•											
ANSYS Academic Teaching Redhawk															•				•											
ANSYS Academic Teaching Powerartist																	•		•											
ANSYS Academic Teaching SCADE																		•	•											
ACADEMIC MULTIPHYSICS CAMPUS SOLUTION PRODUCTS
ANSYS Academic Multiphysics Campus Solution (all versions)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•			•			•		•	•	

	MCAD Geometry & EDA Interfaces									Pre & Post Processing Features & Workbench Applications																		High Performance Computing									Other						
	Neural File Import (IGES, STEP)	Import most common MCAD formats via SpaceClaim (Replaces Alinks for MCAD)	ANSYS Geometry Interfaces for Parasolid & SAT	ANSYS Geometry Interfaces for Solidwork, SolidEdge, Autodesk, NX	ANSYS Geometry Interface for CATIA V5 & V6 Reader	ANSYS Geometry Interface for Creo Parametric & Elements/Direct Modeling	Geometry Interface for JT	Import from 3rd party EDA exported data	ANSYS Alinks for EDA (Altium, Cadence, Mentor Graphics, Sigrity and Zuken)	ANSYS PrepPost (Includes ANSYS M-APDL Prep7, Post1)	Workbench Schematic (Project Page)	ANSYS DesignModeler	ANSYS Customization Suite (ACT)	ANSYS Workbench Meshing (Includes Extended Meshing)	ANSYS Workbench System Coupling (FSI with ONE license)	ANSYS Workbench Acoustics	ANSYS Workbench Topolgical Optimization	ANSYS DesignXplorer	ANSYS Workbench Mechanical Application (Simulation)	ANSYS Workbench Resources (Engineering Data)	ANSYS Workbench Design Point Updates	ANSYS Composite PrepPost	ANSYS CFD PrepPost (Includes Mesh Morpher, TurboGrid)	ANSYS ICEM output interfaces for 3rd party solvers	ANSYS Blademodeler (Bladegen, BladeEditor & VISTA CPD, CCD, AFD & RTD)	ANSYS LS-DYNA Export *.K file	ANSYS EnSight Enterprise (includes EnVision Pro)	Built-in HPC (16 cores per task)	Ability to extend built-in HPC (at extra cost)	Mechanical & Fluids HPC - Shared Memory, Distributed Memory, Domain Decomposition	Electronics HPC - Distributed Memory, Domain Decomposition, Frequency Sweep)	General Purpose GPU Support (ANSYS Mechanical & ANSYS Fluent solvers)	ANSYS Remote Solver Manager (RSM)	*VT Accelerator & Frequency Sweep VT (Legacy- Replaced by Design Point Updates)*	Optimetrics - Parametic Design Optimization for HFSS, Maxwell, etc.	Distruibted Solver Option (DSO) - For distributing an optimization solution	ANSYS EKM Individual	*ANSYS EKM Shared (Legacy)*	Academic screen logo	License borrowing (optional, turned OFF in the license file by default)	Node locked license (tied to installation machine)	Floating LAN Licenses (50 mile radius standard, upgradeable to Country Wide)	Floating LAN Licenses (Country Wide standard)
ACADEMIC STRUCTURAL & FLUIDS PRODUCTS
ACADEMIC ASSOCIATE
ANSYS Academic Associate Mechanical and CFD	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•		•	•	•			•					•	
ANSYS Academic Associate CFD	•	•	•	•	•	•	•				•	•	•	•	•			•		•	•		•		•		•	•	•	•		•	•				•					•	
ANSYS Academic Associate Chemical Kinetics (legacy)																													•	•														•	
ANSYS Academic Associate HPC (Including HPC Workgroup)																															•		•		•									•	
ACADEMIC RESEARCH
ANSYS Academic Research Mechanical and CFD	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•		•	•	•			•		•			•	
ANSYS Academic Research Mechanical	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•		•	•	•			•		•			•	
ANSYS Academic Research CFD	•	•	•	•	•	•	•				•	•	•	•	•			•		•	•		•		•		•	•	•	•		•	•				•		•			•	
ANSYS Academic Research Chemical Kinetics (legacy)																													•	•														•	
ANSYS Academic Research Polyflow (legacy)	•		•	•	•	•	•				•	•		•				•		•	•		•					•	•	•							•		•			•	
ANSYS Academic Research Autodyn (legacy)	•		•	•	•	•	•			•	•	•		•				•	•	•	•							•	•	•							•		•			•	
ANSYS Academic Research Electronics Thermal (legacy)	•		•	•	•	•	•				•	•								•	•		•					•	•	•							•		•			•	
ANSYS Academic Research Offshore/Marine (legacy)	•		•	•	•	•	•			•	•	•		•				•	•	•	•																	•		•			•	
ANSYS Academic Research HPC (Including HPC Workgroup)																															•		•		•					•			•	
ANSYS Academic Research LS-DYNA	•		•	•	•	•	•				•	•		•				•	•	•	•					•			•	•							•		•			•	
ANSYS Academic Research LS-DYNA HPC																															•									•			•	
ACADEMIC TEACHING
ANSYS Academic Teaching Mechanical and CFD	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•		•		•	•	•			•		•	•		•	
ANSYS Academic Teaching Introductory (legacy)	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•		•		•	•	•			•		•	•		•	
ANSYS Academic Teaching Mechanical	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•						•		•		•	•	•			•		•	•		•	
ANSYS Academic Teaching CFD	•	•	•	•	•	•	•				•	•	•	•	•			•		•	•		•		•		•	•		•		•	•				•		•	•		•	
ANSYS Academic Teaching Chemical Kinetics (legacy)																													•														•	
ACADEMIC STUDENT
Discovery AIM Student	•	•																																						•		
ANSYS Student	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•		•		•		•			•		•		•		
Discovery Live Student	•	•																																						•		
ACADEMIC TOOLBOX
ANSYS Academic Preprocessing Tools (renamed from Meshing Tools)	•	•	•	•	•	•	•				•	•	•	•						•	•			•																•			•	
ANSYS Academic EnSight Post Processing Tools (legacy)																										•																	
ANSYS Academic EKM Shared (legacy)																																						•					
ANSYS Academic CFD Turbo Tools (legacy)																								•																•			•	
ANSYS Academic Fuel Cell Tools (legacy)																																								•			•	
ANSYS Academic Composite Tools (legacy)																					•																					
ANSYS Academic SpaceClaim Tools (legacy)																																											
ANSYS Academic FENSAP Tools (legacy)																																											
ACADEMIC ELECTRONICS & SYSTEMS PRODUCTS
ACADEMIC ASSOCIATE
ANSYS Academic Associate Electronics Suite		•						•	•																			•	•		•				•	•						•	
ANSYS Academic Associate HF		•						•	•																			•	•		•				•	•						•	
ANSYS Academic Associate EM		•						•																					•	•		•				•	•						•	
ANSYS Academic Associate Electronics HPC (Including HPC Workgroup)																																•											•	
ANSYS Academic Associate Redhawk																																										•	
ANSYS Academic Associate Powerartist																																										•	
ANSYS Academic Teaching SCADE																																										•	
ACADEMIC RESEARCH
ANSYS Academic Research Electronics Suite		•						•	•																			•	•		•				•	•						•	
ANSYS Academic Research HF		•						•	•																			•	•		•				•	•						•	
ANSYS Academic Research EM		•						•																					•	•		•				•	•						•	
ANSYS Academic Research Electronics HPC (Including HPC Workgroup)																														•		•												•	
ANSYS Academic Research Redhawk																																										•	
ANSYS Academic Research Powerartist																																										•	
ANSYS Academic Teaching SCADE																																										•	
ACADEMIC TEACHING
ANSYS Academic Teaching Electronics Suite		•						•	•																			•			•				•	•						•	
ANSYS Academic Teaching HF		•						•	•																			•			•				•	•						•	
ANSYS Academic Teaching EM		•						•																					•			•				•	•						•	
ANSYS Academic Teaching Redhawk																																										•	
ANSYS Academic Teaching Powerartist																																										•	
ANSYS Academic Teaching SCADE																																										•	
ACADEMIC MULTIPHYSICS CAMPUS SOLUTION PRODUCTS
ANSYS Academic Multiphysics Campus Solution (all versions)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•	•	•		•				•

NOTES:

1. Multiple Features: These academic products are defined by multiple license features bundled together into a single license key. The individual academic products have in the range of 25 - 50 license features each, the campus solution bundles have approximately 250 license features. Thus it is not practical to show the license features in this table. Please contacts your ANSYS Academic sales person or ANSYS Academic product technical support if you require these details.

2. Product names in *gray itallic* marked legacy are no longer available for sale, but are shown for completeness. In most cases the capabilities of these legacy products have simply been absorbed into other academic products. Some product capabilities (columns) are also in *grey itallic* and marked legacy, such capabilities are still available for the products indicated, but have either been superseded by more modern/alternate methods within the same or different academic products.