

**WRAP  
NOW PART OF ALTAIR'S ELECTROMAGNETICS OFFERING**

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## WRAP Software Now Being Part of Altair

Added to the Software Portfolio on May 2020

Free Trials Support Downloads Contact English ▾

**ALTAIR** Altair One Solutions Applications Services Resources

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### Altair acquires WRAP Software to Help Plan and Manage Proliferating Wireless Communications

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Troy, Mich. – May 7, 2020 – Altair, (Nasdaq: ALTR) a global technology company providing solutions in product development, high-performance computing (HPC), and data analytics, today announced the acquisition of the WRAP software business from Swedish company WRAP International AB. WRAP is a world-leading software technology for spectrum management and radio network planning for civil and defense organizations.

With 30 years of development, originally in Saab, the WRAP software covers a wide range of applications with focus on controlling radio spectrum assets for maximum utilization, including radio planning, interference, and coverage calculations, complementing Altair's existing Esko, newEASANI, and WinProp software for wireless propagation modeling and network planning. The impressive users of WRAP include among many others major defense organizations, telecom authorities, broadcast operators, and public safety organizations.

"WRAP software will be a strategic complement to Altair's portfolio as we fortify our solutions for areas like wireless communications including 5G connectivity and IoT," said James Seese, Altair's chief



## About Altair

**\$459M**

FY19  
Revenue

**3,000+**

Engineers, Scientists,  
and Creative Thinkers

**1985**

Founded and  
Headquartered in  
Troy, MI U.S.

**11,000+**

Customers  
Globally

**86**

Offices in  
25 Countries

**150+**

Altair and Partner  
Software Products

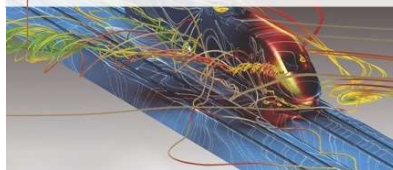


## Broad Solutions Portfolio

### Design, Modeling & Visualization



### Physics Simulation



### Data Analytics



### Internet of Things



### High Performance Cloud Computing



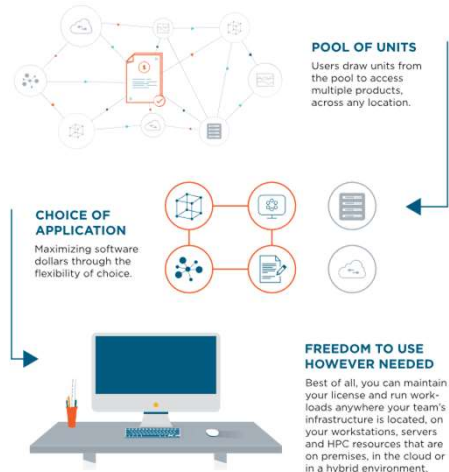
### Altair Partner Alliance (APA)



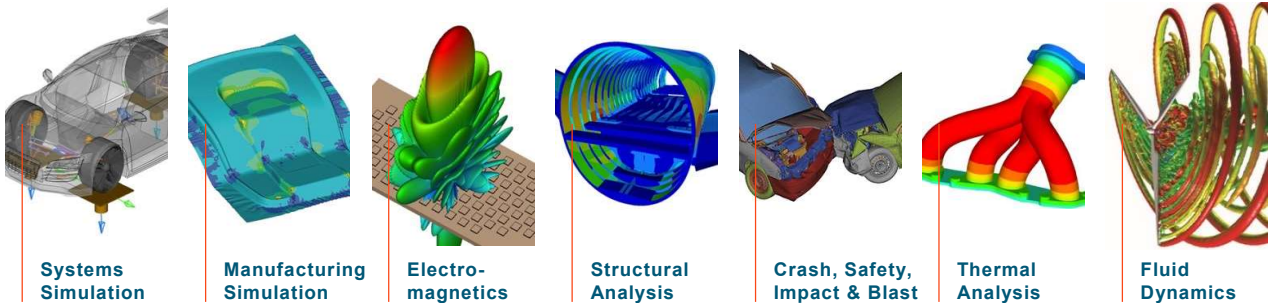
## Pioneering Patented Licensing Model

Revolutionize Your Approach to Innovation and Get to Market Faster

- Units-based subscription software licensing model
- Flexible licensing model enabling customers to fully access our software instantly, as well as more than 150 partner products
- More cost effective than obtaining individual licenses for each application
- Customers can seamlessly run these applications on-demand locally or in the cloud



## Physics Simulation






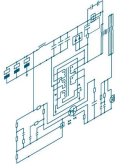



Broadest Portfolio of Optimization-enabled Solvers



# Altair Solution for Electronic System Design

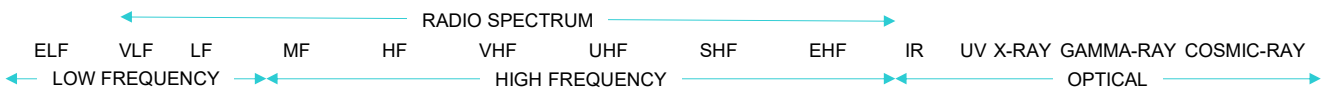
Altair enables the team of specialized engineers required to deliver today's smart, connected devices to collaborate on all aspects of physical, logical, thermal, electrical, and mechanical design

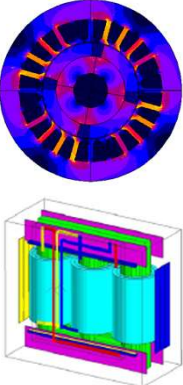
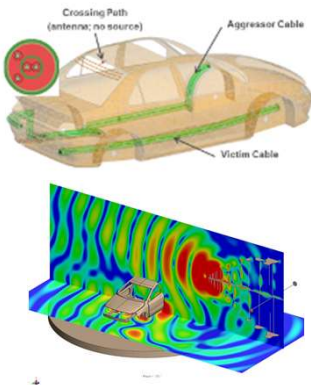
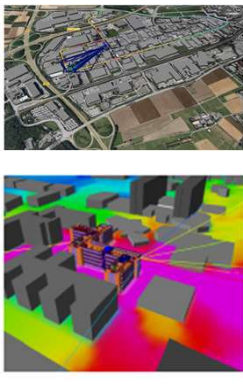
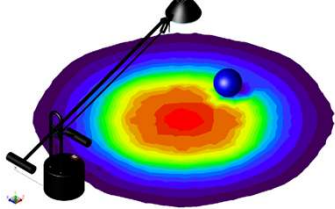
Electronics	Electrical	Mechanical	Thermal	Mechatronics	Circuit	Code
						
More efficient PCB design review, verification, analysis, & manufacture.	Simulate and optimize wireless connectivity, EMC and radar electronics.	Automate structural stress, vibration, & drop test performance.	Thermal analysis of electronics without advanced CFD knowledge.	Accelerate the design of motors, sensors, & actuators with simulation.	Circuit simulation with an enhanced proprietary version of SPICE.	Visual firmware development supporting many common microcontroller families.

Efficient HPC Scheduling & Cloud Accessibility



# Covering the Entire Electromagnetic Spectrum

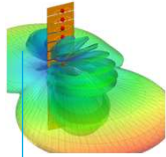


Flux and FluxMotor	Feko and newFASANT	WinProp and WRAP	TracePro (through APA)
Motors, transformers, ...	Antenna design and placement, EMC, RCS, bio-electromagnetics, ...	Wave propagation, network planning, spectrum Mng, ...	
			

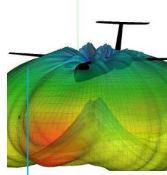


## Main Applications for Altair HF EM Solutions

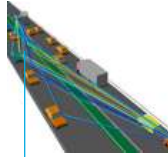
Applications where WRAP Software is Adding Strong Capabilities



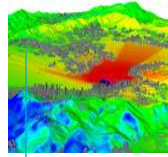
Antenna Design



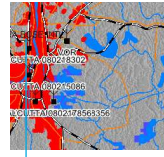
Antenna Placement & Coupling



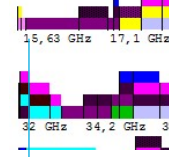
Virtual Drive & Flight Tests for Platform Connectivity & ADAS



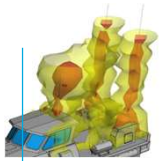
Radio and Radar Coverage & Planning



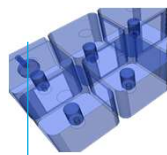
Radio Frequency Interference



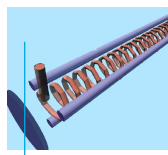
Spectrum Management



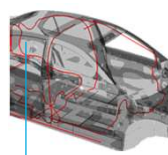
RADHAZ & Bio-Electromagnetics



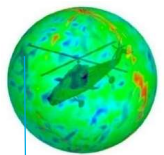
RF Devices



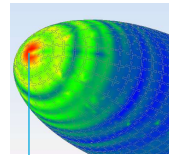
Microwave Amplifiers & Plasma Environmental Effects



Electromagnetic Compatibility



Scattering & RCS



Radomes, including FSS



## Main Users and Verticals

Interested in and Working with Radio Network Planning and Spectrum Management via WRAP

- Defense
- Military
- Aviation and maritime
- Telecom
- Public safety
- Transportation and railway
- Energy and utility
- TV broadcasting





# THANK YOU

[altair.com](http://altair.com)



#ONLYFORWARD

