ation Post Processing Help



## **User Manual**

for

# Software-as-a-Service Application

Post Processing: RCS vs Frequence

- Facet Count : 6219

Vertex Count : 18660

- initVox - Voxel Count : 44

- Initializing Voxels - done

- Project loaded

https://predicsrcs.com



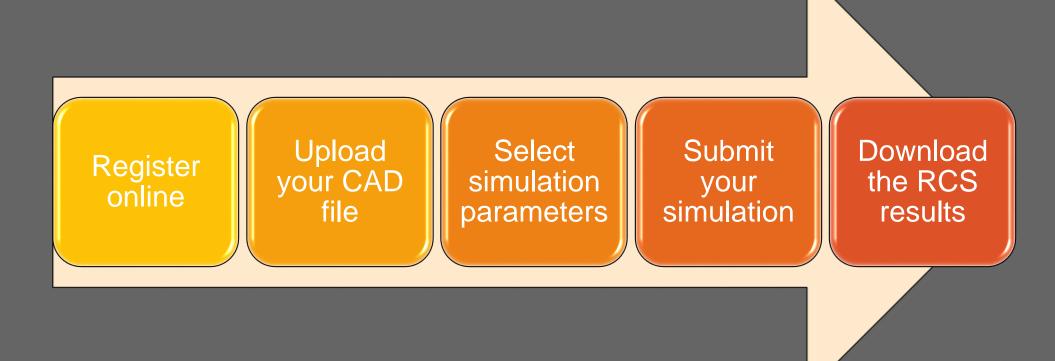


## Introduction

- This user-manual briefly describe how to use the *PREDICS Radar Cross Section Simulation and Analysis* software over the Internet
   by the help of Software-as-a-Service (SaaS) application,
- With this application, it becomes possible to submit an RCS and/or Inverse Synthetic Aperture Radar (ISAR) simulation from your computer without the need to buy the full license of PREDICS.
- You will be able to download the simulation results within minutes to your own computer.

#### 2262IC8

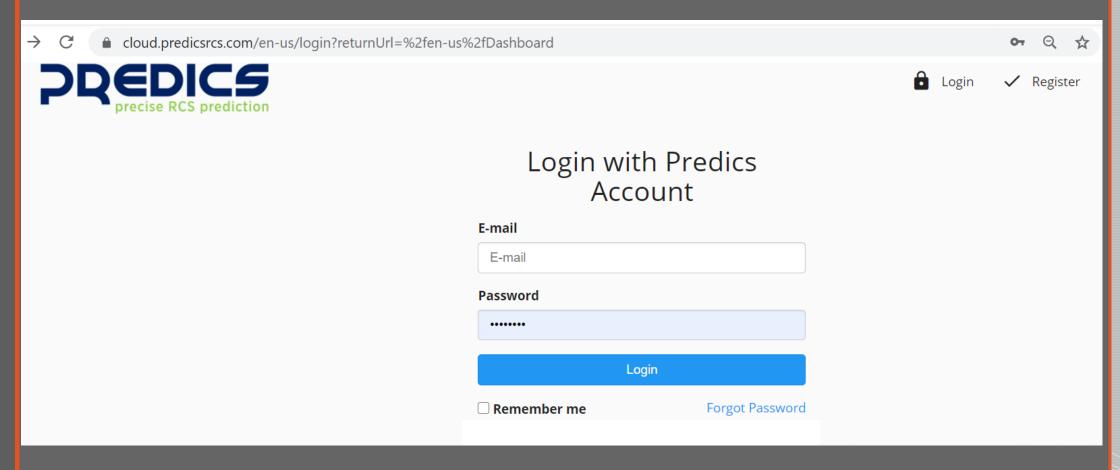
# General overflow of using PREDICS SaaS module





## **STEP 1 - Register**

#### Register online via <u>https://cloud.predicsrcs.com/</u> and form your own account





## STEP 2 – Start new project

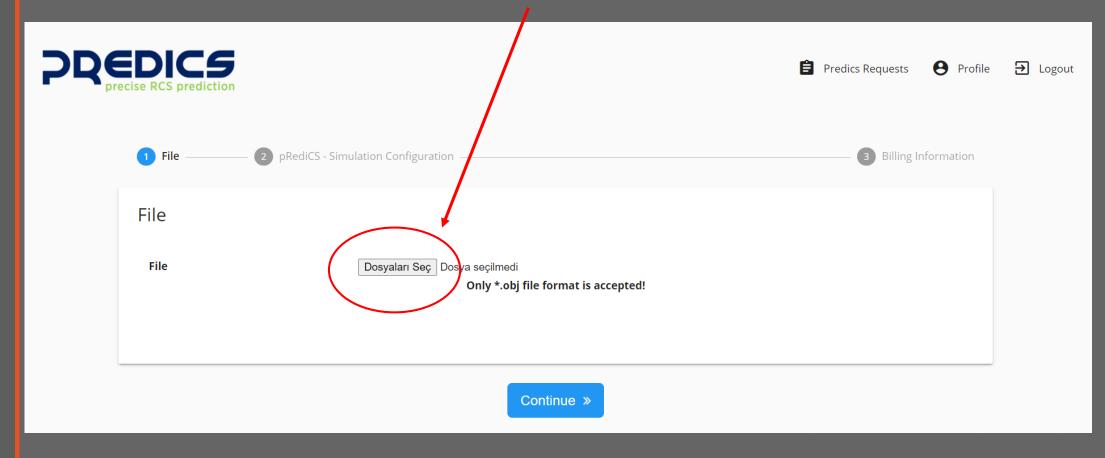
Start a new simulation project by clicking "New Predics Request"

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Search: Creation Time From To	↑ Modification Time From To	Status	Comment			Sho		) 🗸 e	entries tions
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12.01.2021 14:35	12.01.2021 14:35	Waiting			E				Û
Showing 1 to 4 of 4 entries					First F	revious	1	Next	Last



## STEP 3 – Upload your CAD file

Upload your CAD\* file by clicking "Select File"

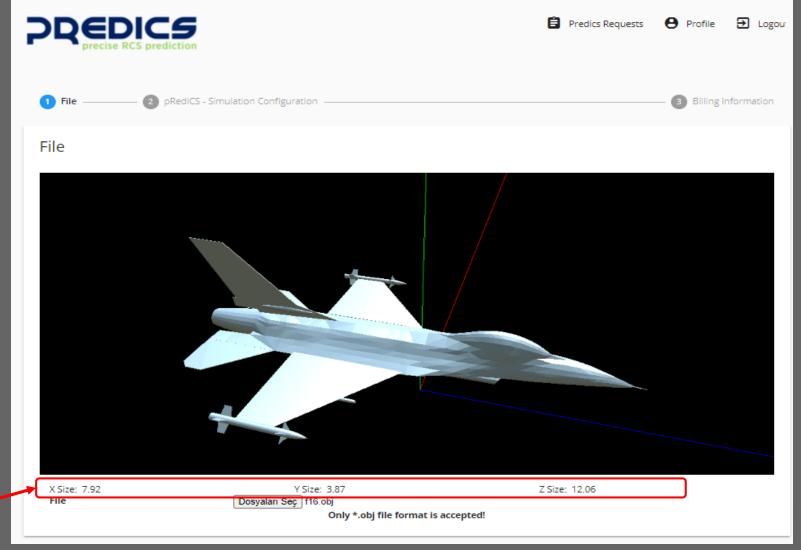


#### 2262IC2

### **STEP 4 - View your CAD file**

 View your CAD file from the screen to make sure that it is correctly uploaded.

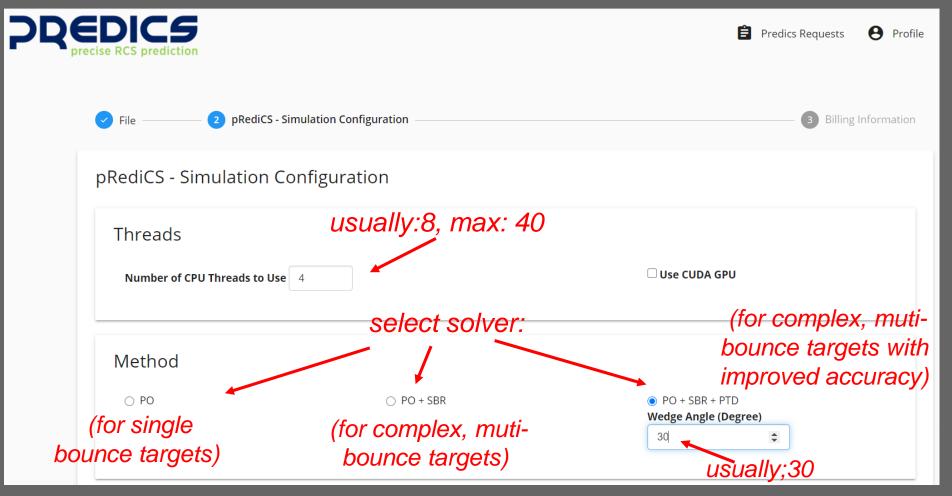
Also note the dimension of the whole model.





### **STEP 5 – Enter Simulation parameters**

#### Start filling out RCS/ISAR simulation parameters



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### **STEP 5 – Enter Simulation parameters**

Continue filling out RCS/ISAR simulation parameters

Units	sele	ct proper unit for y	our CAD file	
Inch	⊖ cm	Meter	⊖ mm	⊖ mile
Simulation	Mode select	RCS or 2D/3D IS/	AR simulation	mode
RCS Simulation	n	○ 2D ISAR Simulation		○ 3D ISAR Simulation
S Options Simulation Accu	elect simulation high or mo racy High ~			t number of maximum number of stromagnetic bounce scattering (usually 5-10)



#### **STEP 5 – Enter Simulation parameters**

Continue filling out RCS/ISAR simulation parameters

RCS Simulation Options			
Frequencies select	frequencies for sim	ulation	
Start (GHz) 8	<b>Stop (GHz)</b> 12	Step 4	
Observation Angles Sele Theta, Phi Theta or EL (Degree)	ect look-angles for s ০ আ	imulation (spherical coo	rdinates) $(r, \theta, \varphi)$
Start 90	<b>Stop</b> 90	Step 0	$\phi$
Phi or AZ Range (Degree) Start 0	<b>Stop</b> 360	<b>Step</b> 360 <b>\$</b>	x
		Bsave save to f	inish

9



#### STEP 6 – Review your project before run

• Review your submission and you can order afterwards

	prediction		🖹 Predics Requests  e Profile 🕣 Logout
Predics Request	ts	review your requests	New Predics Request
Search: Creation Time	↑ Modification Time	Status Comment	click to order and Show 10 v entries
From To	From To		Operations
02.02.2021 23:52	02.02.2021 23:52	Waiting	
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12.01.2021 14:35	12.01.2021 14:35	Waiting	🚍 C 🛓 🛍
Showing 1 to 5 of 5 entries			First Previous 1 Next Last



## **STEP 7- Order and submit**

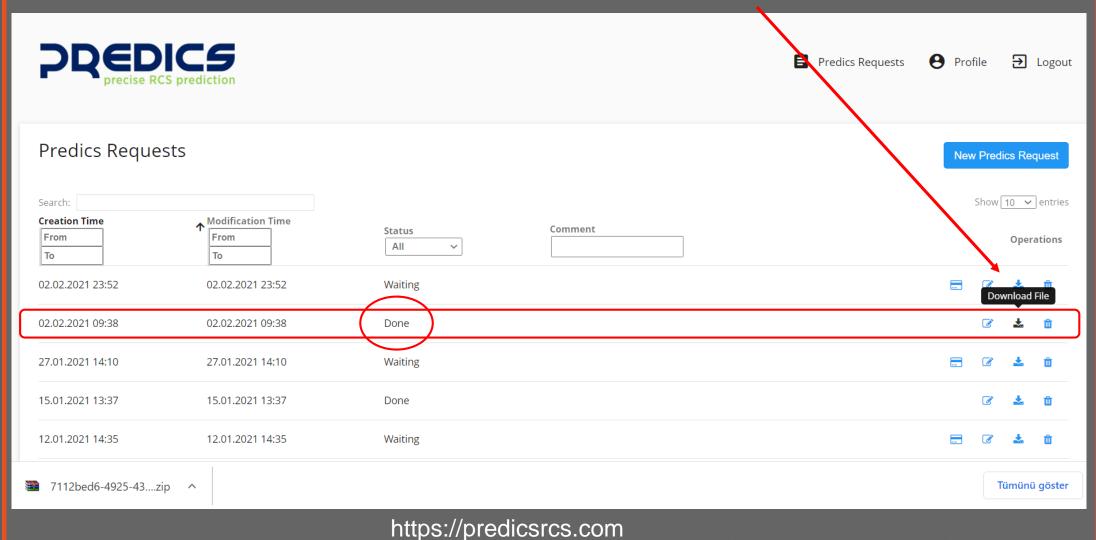
Securely complete your payment for the simulation via our secure payment module.

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#### **STEP 8 – Download the results**

In minutes, you can download the simulation results as shown below.



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#### STEP 9 – Review the simulated results

The downloaded file is a folder has a unique name-tag for your project that contains:

- RCS simulation results
- Backscattered electric field (for PO+SBR and PO+SBR+PTD solvers)
- All results are given in full polarization (VV, VH, HV and HH)

> DELL\_PC > Masaüstü > UserManual > 7112bed6-4925 4349-9a1f-7f40d01d01e7

^	Ad	Değiştirme tarihi	Tür	Boyut
	bd98e203-787a-45af-bb1e-be0d913dfbe3.eptd	2.02.2021 09:55	EPTD Dosyası	1 KB
*	bd98e203-787a-45af-bb1e-be0d913dfbe3.esbr	2.02.2021 09:55	ESBR Dosyası	81 KB
*	bd98e203-787a-45af-bb1e-be0d913dfbe3.etot	2.02.2021 09:55	ETOT Dosyası	81 KB
*	bd98e203-787a-45af-bb1e-be0d913dfbe3.log	2.02.2021 09:55	Metin Belgesi	1 KB
*	🥏 bd98e203-787a-45af-bb1e-be0d913dfbe3.obj	2.02.2021 09:50	OBJ File	445 KB
*	bd98e203-787a-45af-bb1e-be0d913dfbe3.rcs	2.02.2021 09:55	RCS Dosyası	48 KB
	bd98e203-787a-45af-bb1e-be0d913dfbe3.rpj	2.02.2021 09:50	RPJ Dosyası	4 KB
	ReadMePREDICS.txt	3.02.2021 10:03	TXT Dosyası	2 KB

• ReadMe.txt file gives the detailed explanation.

https://predicsrcs.com



#### For more information, please contact via



info@predicsrcs.com



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