



Army Model Exchange

<https://modelexchange.army.mil>

False Impression Caveat



It should be explicitly noted that the U.S. Government makes no official commitment nor obligation to provide any additional detailed information or an agreement of sale on any of the systems / capabilities portrayed during this presentation which have not been authorized for release.

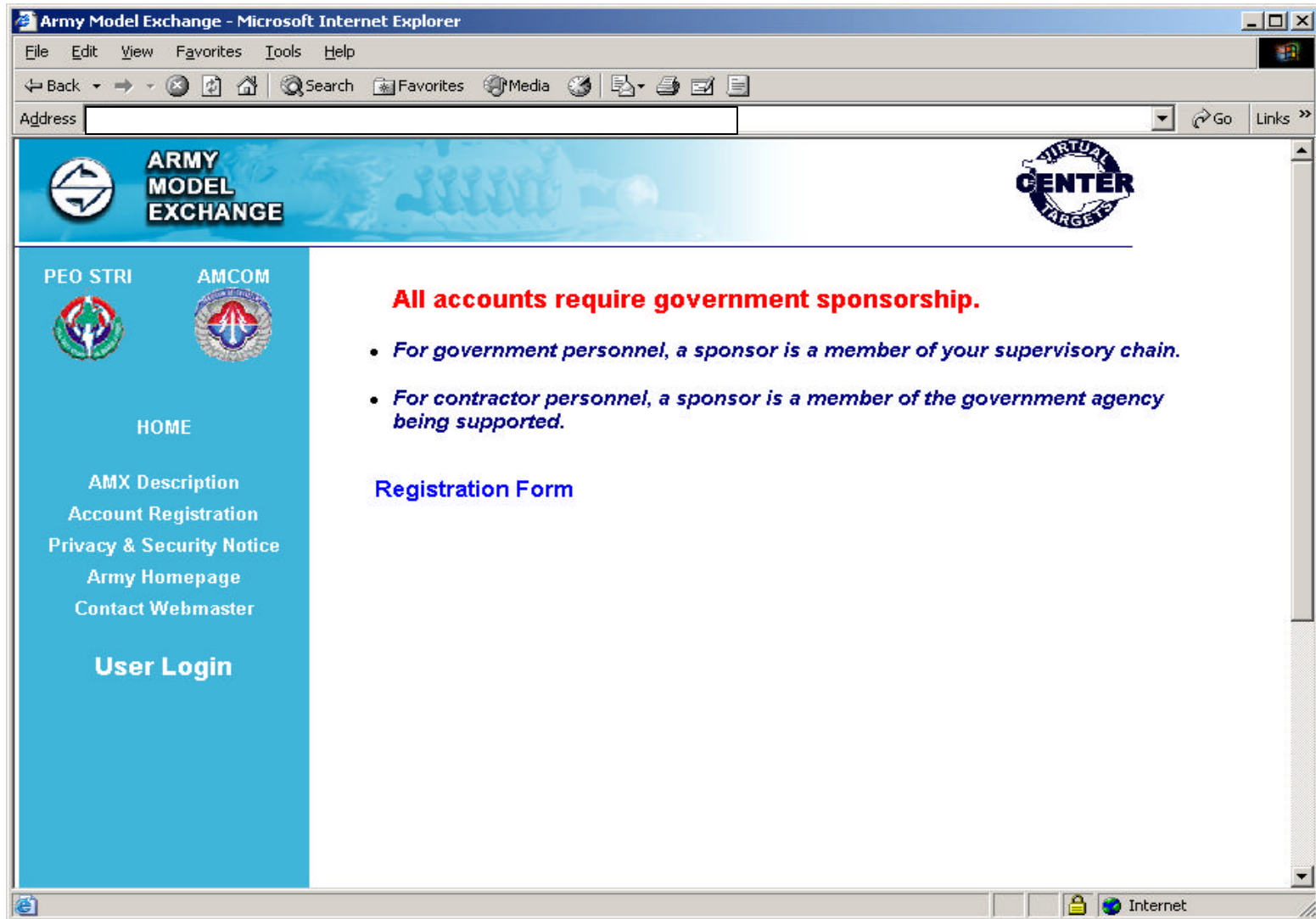


- **Army Model Exchange Overview**
- **Virtual Targets Center Overview**
- **Summary**

Army Model Exchange Opening Page



Army Model Exchange New User Opening Page



Army Model Exchange New User Information Page





Army Model Exchange - Microsoft Internet Explorer


File Edit View Favorites Tools Help


Back Forward Stop Search Favorites Media Print Mail

Address Go Links

**ARMY
MODEL
EXCHANGE**



**PEO STRI**

**AMCOM**

HOME

- AMX Description
- Account Registration
- Privacy & Security Notice
- Army Homepage
- Contact Webmaster

User Login

User Information

All accounts must be sponsored. You cannot sponsor yourself.
Your sponsor can be any government employee with appropriate authority,
and will be contacted for verification.

Asterisks (*) indicate required fields.

* First Name:

M.I.:

* Last Name:

Rank, Grade, or Title:

* Organization:

^ Mailing Address Line 1:

Mailing Address Line 2:

* City:

^ State:

* Postal Code:

DSN Phone Number:

* Commercial Phone Number:

^ Email Address:

^ Confirm Email Address:

Alternate Email Address:

Confirm Alternate Email Address:

[To Sponsor Information >>>](#)

Army Model Exchange New User Sponsor Page



Army Model Exchange - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address:

ARMY MODEL EXCHANGE

VIRTUAL TARGETS CENTER

PEO STRI **AMCOM**

HOME

AMX Description

Account Registration

Privacy & Security Notice

Army Homepage

Contact Webmaster

User Login

Sponsor Information

Asterisks (*) indicate required fields.

* Sponsor First Name:

M.I.:

* Last Name:

Rank, Grade, or Title:

* Organization:

* Mailing Address Line 1:

Mailing Address Line 2:

* City:

* State:

* Postal Code:

DSN Phone Number:

* Commercial Phone Number:

* Email Address:

* Confirm Email Address:

Alternate Email Address:

Confirm Alternate Email Address:

WARNING!! This Department of Defense computer system is subject to monitoring at all times.
Users are advised to read and agree to the following [security notice](#).

Army Model Exchange Archive Opening Page



Army Model Exchange - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Mail News RSS Feeds

Address Go Links >>

Army Model Exchange

HOME

CAD Models

- Military Systems

Software

- Software Downloads

Account Information

- Contact Data
- Change Your Password

Administrators

- VTC Administration

Date: Dec 18, 2003
Account Expires: Mar 27, 2004
[Contact Webmaster](#)

THIS IS A DEPARTMENT OF DEFENSE (DoD) COMPUTER SYSTEM

This computer system, including all related equipment, networks and network devices (specifically including internet access), are provided only for authorized U.S. Government use. DoD computer systems may be monitored for all lawful purposes, including to ensure that their use is authorized, for management of the system, to facilitate protection against unauthorized access, and to verify security procedures, survivability and operational security. Monitoring includes active attacks by authorized DoD entities to test or verify the security of this system. During monitoring, information may be examined, recorded, copied and used for authorized purposes. All information, including personal information, placed on or sent over this system may be monitored. Use of this DoD computer system, authorized or unauthorized, constitutes consent to monitoring of this system. Unauthorized use may subject you to criminal prosecution. Evidence of unauthorized use collected during monitoring may be used for administrative, criminal or other adverse action. Use of this system constitutes consent to monitoring for these purposes.

Army Model Exchange User Agreement

The models residing here are the property of the United States government and are available to other DoD agencies for use in modeling and simulation activities. These models may be freely distributed to other DoD agencies engaged in modeling and simulation activities. You are agreeing to be the sole user of your account. Your downloading of these models constitutes an acceptance of this agreement.

Your access to the Exchange will expire **Mar 27, 2004**.

Done Internet

Army Model Exchange Military Systems Listing Page



Army Model Exchange - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address

Go Units

Army Model Exchange

Date: Dec 18, 2003
Account Expires: Mar 27, 2004
Contact Webmaster

HOME :: MILITARY SYSTEMS

CAD Models
Military Systems

Software
Software Downloads

Account Information
Contact Data
Change Your Password

Administrators
VTC Administration

Military System: Search [List All Military Systems](#)

Links: Engineering Analysis **EA** Radar Analysis **RF** IR Analysis **IR** Visualization **VS** IR Visualization **IRVS** Description **DESC**

System Name	Nomenclature	Assets Available
1 105MM/Howitzer	United States Towed Howitzer 105MM	1 VS
2 107MM/Howitzer	Towed Howitzer 107MM	1 VS
3 105MM/Recoilless Rifle	Recoilless Rifle	1 VS
4 120MM/MORTAR	Mortar 120mm	1 VS
5 155MM	155MM Towed Spare Artillery	2 VS
6 2A-36/GIATSINT-B	Russian Towed Artillery 2A-36/GIATSINT-B 152mm Towed Gun	2 VS DESC
7 2A45M/SPRUT	Russian 125mm Towed Anti-Tank Gun 2A45M/SPRUT	3 VS
8 2A65/M1967	Russian 152mm Howitzer 2A65/M1967	1 VS
9 2S1/GVODZIKA	Russian 122mm Self-Propelled Howitzer 2S1/GVODZIKA	1 EA 1 IR 4 RF DESC
10 2S12	Russian 120mm Mortar 2S12	1 VS
11 2S19	Russian 152mm Self-Propelled Howitzer 2S19	DESC
12 2S3M/Akatsiya	Russian 152mm Self-Propelled Gun-Howitzer 2S3M/Akatsiya	1 EA 1 IR 5 RF 7 VS DESC
13 2S5/GIATSINT-S	Russian 152mm Self-Propelled Gun 2S5/GIATSINT-S	DESC
14 2S6M /Tunguska	Russian 30mm Self-Propelled AA Gun/Missile System 2S6M /Tunguska	9 VS DESC
15 37MM/Anti-Aircraft	37MM Self-Propelled AA Gun	1 VS
16 9A51/Prima	Russian 122mm Multiple Rocket Launch System 9A51/Prima	1 VS DESC
17 9A52-2	Russian 300mm Multiple Rocket Launcher 9A52-2	DESC
18 9K51/GRAD	Russian 122mm Multiple Launch Rocket System 9K51/GRAD	DESC
19 9K58/Smerch	Russian 300mm Multiple Launch Rocket System (MLRS) 9K58/Smerch	1 VS
20 9P140/Uragan	Russian 220mm Multiple Rocket Launcher 9P140/Uragan	DESC
21 9P148	Russian ATGM Launcher Vehicle 9P148	DESC
22 9P149	Russian ATGM Launcher Vehicle 9P149	DESC
23 A-10/Thunderbolt	United States Attack Aircraft A-10/Thunderbolt	4 VS
24 A0-177/Cinamon	United States Ship A0-177/Cinamon	1 VS
25 A4F/Skyhawk	United States Attack Aircraft A4F/Skyhawk	1 VS DESC

Internet

Army Model Exchange Equipment Information Page

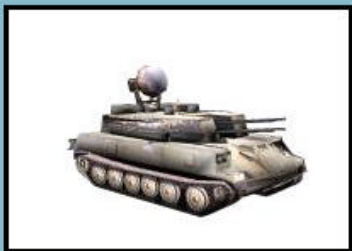


AMX Military System Frameset - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS

Address Go Links >>



Russian 23mm Self Propelled AA Gun ZSU 23-4/Shilka

- System Specifications
- Automotive Performance
- Radio
- Fire Control
- Weapon & Ammunition Types
- Armament
- Main Armament Ammunition
- Notes
- Alternate Description

System Specifications

Date of Introduction: 1965

Proliferation: At least 28 countries

Description:

Crew: 4

Combat Weight (mt): 20.5

Chassis: GM-575 Tracked, six road wheels, no track support rollers

Length (m): 6.5

Height (m):

Radar up: 3.75

Radar down: 2.60

Width (m): 3.1

Done Internet

Army Model Exchange Engineering Analysis Model Page



AMX Military System Frameset - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address Go Links >>

ZSU 23-4/SHILKA

Engineering Analysis Assets

00001037.zip 3dm

This model has not been validated for use.

[Download](#)

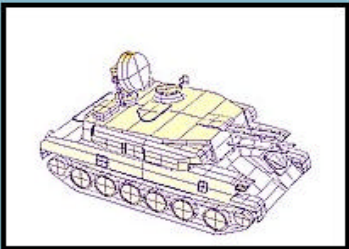
Archive Name:
00001037.zip

Archive File Size:
1094734 bytes

File Format:
RHINO MODEL

Model Ancestry:
VIRTUAL TARGETS PROGRAM

[Close this window](#)



Archive Contents:
zsu23_rhino_surface.3dm

Archive Comments:
Filename: zsu23_rhino_surface.3dm
Format: Rhino 3dm
Version: 2.0
File size: 2.74 MB
Surface: 8
Polysurfaces: 62

Done Internet

Army Model Exchange Infrared Model Page



AMX Military System Frameset - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Print Preview Print... Go Links

Address

ZSU 23-4/SHILKA

IR Analysis Assets
00001009.zip 3dm

This model has not been validated for use.

Download

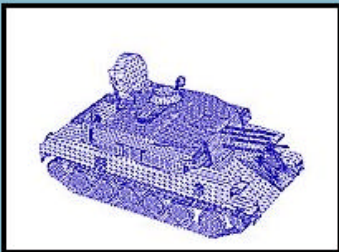
Archive Name:
00001009.zip

Archive File Size:
315000 bytes

File Format:
RHINO MODEL

Model Ancestry:
VIRTUAL TARGETS CENTER

Close this window



Archive Contents:
zsu23_muses_version.3dm
ZSU_MESH DESCRIPT.txt

Archive Comments:
Filename: zsu_muses_version.3dm
System: ZSU 23/4
(Rhino 1.x3D Model - MuSES compatible)
Contains:63 meshes with 26,072 vertices and 29,657 polygons
Materials:Steel, Rubber -road wheels, Rubber-mud flaps, Glass lens on lights, Fiberglass composite/Aluminum/Steel on Radar.

Done Internet

Army Model Exchange Radar Frequency Model Page



AMX Military System Frameset - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Copy Paste Mail

Address Go Links >>

ZSU 23-4/SHILKA

Radar Analysis Assets

This model has not been validated for use.


Download

Archive Name:
00000277.zip

Archive File Size:
7684801 bytes

File Format:
MODELMAN

Model Ancestry:
VIRTUAL TARGETS PROGRAM



[View XML Data](#)

Archive Contents:
ZSU_23-4.MMP

Archive Comments:
Filename: ZSU_23-4.mmp
Parts: 3,943
Facets: 852,803
Articulations: 45
Materials: 7

Done Internet

Army Model Exchange Visualization Model Page



AMX Military System Frameset - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News

Address Go Links >>

ZSU 23-4/SHILKA

Visualization Assets
00000092.zip obj

This model has not been validated for use.

Download


Archive Name:
00000092.zip

Archive File Size:
163569 bytes

File Format:
WAVEFRONT

Model Ancestry:
VIRTUAL TARGETS CENTER

Close this window



Archive Contents:
zsu.mtl
zsu.obj

Archive Comments:
Filename: zsu.obj
Facets: 4355
Groups: 8
Materials: 5

Done Internet

Army Model Exchange Software Page



Army Model Exchange - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address Go Links >>

Army Model Exchange

HOME :: SOFTWARE

CAD Models

- Military Systems

Software

- [Software Downloads](#)

Account Information

- [Contact Data](#)
- [Change Your Password](#)

Administrators

- [VTC Administration](#)

Date: Dec 18, 2003
Account Expires: Mar 27, 2004
[Contact Webmaster](#)

Software available for download:

[ModelMan \(WIN\)](#)
[ModelMan \(SGI\)](#)
[ModelMan \(Sun\)](#)
ModelMan is a visualization and articulation tool for working with MMP files.

[Pioneer \(WIN\)](#)
[Pioneer \(SGI\)](#)
[Pioneer \(Sun\)](#)
Pioneer is a data organization and visualization tool which provides support of RCS data, range profiles, SAR images, scattering center processing, visualization, and plotting.

[RCSPlot \(WIN\)](#)
RCSPlot is a quick-look data viewing tool for use with target signature data. Multiple measurement data formats are read in order to display single frequency RCS curves for easy, quick-look analysis. Frequency-averaged and median RCS overlays are also possible. Displayed graphics or actual x-y data points are readily captured for print or copy into other applications.

[Rpplot \(WIN\)](#)
RPPlot is a quick-look data viewing tool for use with target signature data. Multiple measurement data formats are read in order to display range profile curves for easy, quick-look analysis. Displayed graphics or actual x-y data points are readily captured for print or copy into other applications.

https://modelexchange.army.mil/amx/secure/amx/amx_software/amx_software.php Internet

Virtual Targets Center Functions



- **Virtual Targets Project**
- **Target Generation Laboratory**
- **Army Model Exchange**

Virtual Targets Program



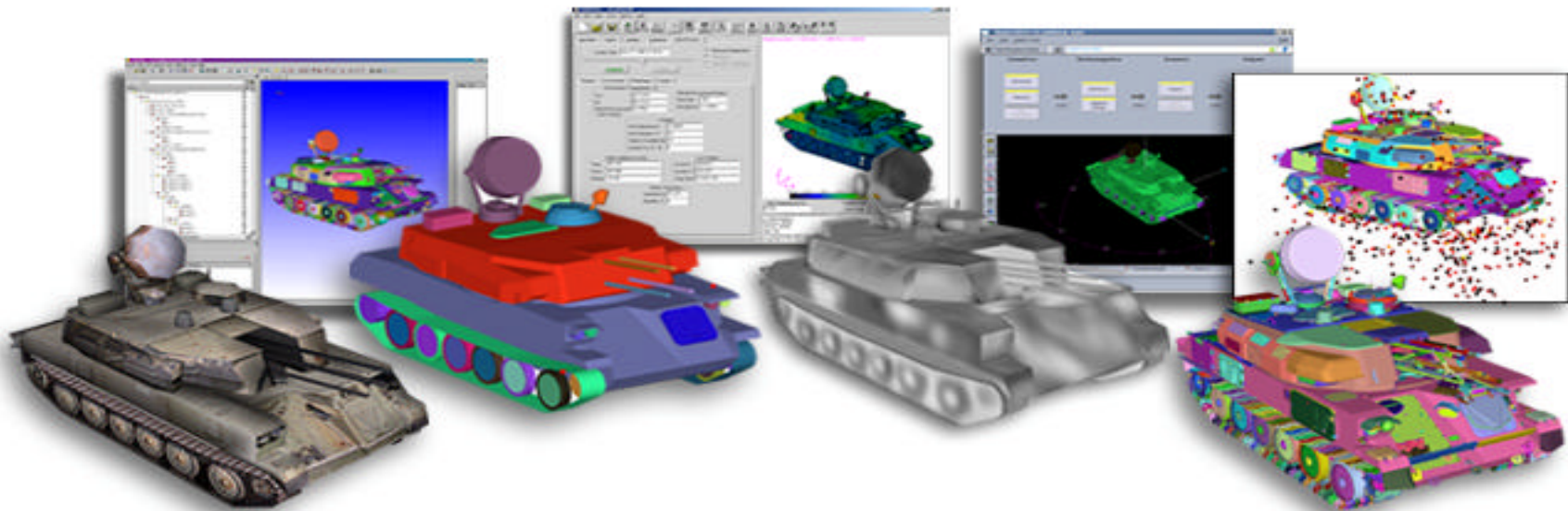
The Virtual Targets Program is charged with the creation of digital geometry target models of range equipment used in modeling and simulation.



Target Generation Laboratory



The Target Generation Laboratory is charged with generating from the digital geometry target models the multiple types of simulation target models needed to support activities across the spectrum of Army and DoD simulations ranging from the low resolution stealth views such as used by OneSAF to the high resolution needs of Hardware in the Loop and predictive signatures codes.



The image is a collage of three screenshots from a 2007 web browser, likely Microsoft Internet Explorer. The top-left screenshot shows the 'Army Model Exchange' homepage. It features a navigation menu with links like 'HOME', 'ARM Description', 'Account Registration', 'Privacy & Security Notice', 'Army Homepage', 'Contact Webmaster', and 'User Login'. There is a 'New User' button and a small image of a military vehicle. The top-right screenshot shows a list of military systems, including 'United States Toward Launcher 359M', 'Russian 220mm Self-Propelled Gun Howitzer 2S34M-Luch', and 'Russian 220mm Self-Propelled Gun Howitzer 2S34M-Luch'. The bottom-right screenshot shows a detailed view of the 'ZSU 23-4/SHILKA' system, including its 'Archive Name', 'File Format', and 'Model Assembly'.

Summary



- The Virtual Targets Center is comprised of 3 interrelated components supporting M&S
 - + Virtual Targets Project
 - + Targets Generation Lab
 - + Army Model Exchange
- The Virtual Targets Center's available infrastructure supports quick reaction for immediate needs and cost avoidance
- The Army Model Exchange currently provides over 1200 high quality, standardized simulation target models to support M&S
- Available to all Army and DoD M&S developers