

Appendix N

ESATAP Distribution and maintenance process

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Abstract

After having finalized the first industrial version of ESATAP early 2008, the Thermal Post Processing tool funded by ESA and developed by DOREA, a dedicated website is now available. This presentation shows the distribution procedures and online materials: hot-line, bug tracking system, FAQ, training courses and videos are now available for thermal users.














ESATAP
Distribution & Maintenance

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ESATAP Quick Presentation




- ESATAP has been developed by SILOGIC, TAS & DOREA and 100% funded by ESA.
- DOREA is in charge of the maintenance and distribution since 2008.
- **Main features:**
 - Handle the standard STEP-NRF thermal results data files.
 - Allow to implement own post processing scripts (components)
 - Provide a toolbox of around 40 basic components for statistical, thermal, mathematical calculation, heatflow, etc.
 - Provide interfaces with MS Word, MS Excel, OpenOffice, GnuPlot, etc.
 - Provide a graphical user interface for non-programmers allowing to easily implement/maintain/improve/enrich the Toolbox and/or own Local components or structured complex tasks.



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ESATAP Works on 2008










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- **ESA and DOREA signed a maintenance contract until 2011.**
- **A first industrial version (ESATAP 1.0.1) has been released early 2008.**
 - Available on PC and Linux platforms
 - Including 40 components (System toolbox)
 - Including DMPTAS, the ESATAN / STEP-TAS HDF5 convertor.
- **A second release (1.0.2) is under verification, and will be available before end 2008**
 - DMPTAS convertor performances has been largely improved (now, 5000 nodes, 1 000 000 of conductors results is dumped in 12 min, against 40 min in the previous version).
 - ESATAP GUI has been improved.

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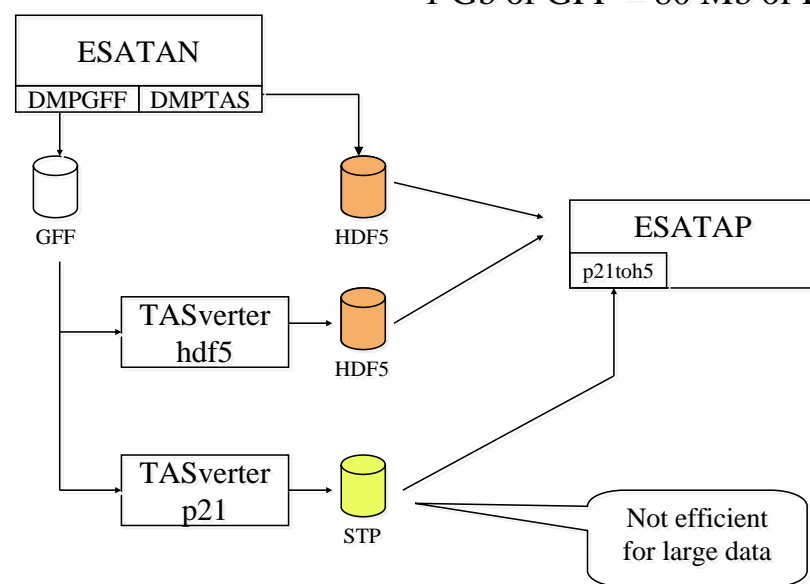
- **Our main problem: How to get STEP-TAS/NRF file with significant data ?**
 - ESATAP is not useful without input data !!
- **Now, only 1 source : ESATAN**
 - Handling GFF file was not a good solution.
- **Solution (successfully implemented in 2008):**
 - Improve the DMPTAS convertor.
- **DMPTAS:**
 - A direct and fast STEP-NRF convertor from ESATAN.
 - Writing in HDF5, a binary, compressed and indexed file upon a standard format (STEP-TAS).

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ESATAP : How to get data ?

1 Gb of GFF = 80 Mb of HDF5

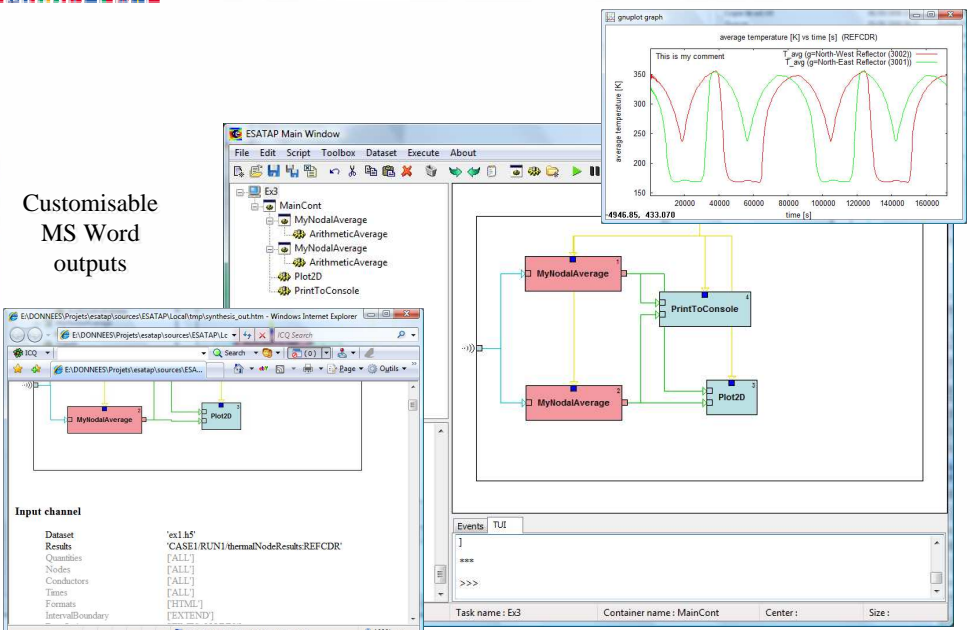


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ESATAP



Customisable
MS Word
outputs

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ESATAP web site
www.esatap.com

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website hosted by DOREA
ESATAP
European Space Agency

ESA portal ESTEC DOREA Thermal & Structures Division STEP-TAS/NRF

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Announcements >
Downloads
How to get software >
Registration >
Download software >
Documentation >
Services
Frequently Asked Questions (FAQ) >
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ESATAP
Website and mail system hosted by DOREA

What is ESATAP?
ESATAP is a post-processing tool for thermal analysis data using the STEP-TAS and STEP-NRF data exchange standards. The main objective of the tool is to evaluate the results of the solution steps and to verify the quality of the input model and data. The results of operations performed by ESATAP can be used as input to other analysis tasks.

ESATAP:

- Handles the standard STEP-TAS/NRF (v5.2) thermal results data files.
- Allows the implementation of your own post processing scripts (components).
- Provides a toolbox of around 40 basic components for statistical, thermal, mathematical calculation, heatflow, etc.,
- Provides interfaces with MS Word, MS Excel, OpenOffice, GnuPlot, etc.,
- Provides a graphical user interface for non-programmers allowing to easily implement/maintain/improve/enrich the Toolbox and/or own Local components or structured complex tasks.

Package content

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DOREA TECHNOLOGY
esa

ESATAP how to get the software

Please, register
and sign the Licence Agreement

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ESATAP
European Space Agency

ESA portal ESTEC DOREA Thermal & Structures Division STEP-TAS/NRF

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Announcements >
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DOREA TECHNOLOGY

SUB-LICENSE AGREEMENT
(ESATAP software)

Background:



- Whereas the software ESATAP has been developed by the Contractor: SIILOGIC (F), together with its Sub-Contractor DOREA (F) under ESTEC/Contract no. 17940/03/NL/CH. According to the terms of the CCN. No. 6 to the Contract No. 17940/03/NL/CH, the European Space Agency, referred to as the Agency, is the owner of all the intellectual property rights on the ESATAP software;
- The Agency and DOREA (F) signed a frame-contract for the maintenance and distribution of ESATAP;
- The above-mentioned frame-contract includes a licence entitling DOREA (F) to use, copy, modify and grant sub-licences on ESATAP in order to fulfil its obligations under the present frame-contract;

The following is agreed:




I accept the terms in the licence agreement

Now, you need to fill the registration form: REGISTER



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ESATAP how to get the software

Fill the registration form

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First name:

Last name:

Initials:

Title/Position:

Affiliation (company/institute/center):

Address:

City:

Country: Choose one of the following...

Zip Code:

Phone:

Fax:

Email (download info is sent via email):

Email (enter again to confirm):

Provide us your target machine platform: Windows XP/Vista Linux



Field of application (ESATAP): (tick one or more as relevant)

Space (ESA project)
 Space (non ESA)
 Aeronautical
 Research
 Teaching (e.g. univers.)
 Defence
 Other




Description of other field of application / intended ESATAP use :

Comments :



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ESATAP how to get the software

- **Send the registration form:**
 - You need to configure your browser web mail in order to send the registration by email.
 - In few hours max, you will receive an acknowledgement.
- **After 3 working days max, you will receive your login and password.**
 - The internal process requires that the download request must be accepted by ESA.
- **Once the request has been validated, you will receive your access code.**
- **To download : login.**

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28–29 October 2008




ESATAP how to get the software








**Log on to access
the download area**

User login



Connexion à www.dorea.eu

Le serveur www.dorea.eu à l'adresse DOREA's Restricted Download Area requiert un nom d'utilisateur et un mot de passe.

Avertissement : ce serveur requiert que votre nom d'utilisateur et votre mot de passe soient envoyés de façon non sécurisée (authentification de base sans connexion sécurisée).

Nom d'utilisateur :



Mot de passe :

Mémoriser mon mot de passe




OK Annuler

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ESATAP how to get the software

Download Area


ESATAP mandatory packages			
<i>Windows platform (installation)</i>			
Instal.	Package	Date	Size
	ESATAP_win32_installer.zip	20/03/2008	2.5 Mb
	ESATAP_1.0.1_Binaries_Packages_win32.tar.gz	20/03/2008	31 Mb
<i>Linux GNU platform (installation & compilation)</i>			
Instal.	Package	Date	Size
	install.sh	20/03/2008	5 Kb
	ESATAP_1.0.1_Prerequisite_Packages.tar.gz	20/03/2008	69 Mb
<i>ESATAP core distribution (Windows & Linux)</i>			
Instal.	Package	Date	Size
	ESATAP_1.0.1_Installation_Readme.tar.gz	20/03/2008	13 Kb
	ESATAP_1.0.1_Objects_Core.tar.gz	20/03/2008	8.5 Mb
	ESATAP_1.0.1_Programming_Guide.tar.gz	20/03/2008	350 Kb
	ESATAP_1.0.1_Users_Manual.tar.gz	20/03/2008	2.8 Mb
<i>DMPTAS packages</i>			
<i>Windows platform (MinGW)</i>			
Instal.	Package	Date	Size
	DMPTAS_1.0_win32.tar.gz	20/03/2008	1.2 Mb
<i>Linux GNU platform (gcc 4.1.0 & gcc 3.4.6)</i>			
Instal.	Package	Date	Size
	DMPTAS_1.0_linux_gcc410.tar.gz (Suse 10, gfortran)	20/03/2008	1.2 Mb
	DMPTAS_1.0_linux_gcc346.tar.gz (CentOS, g77)	20/03/2008	2.5 Mb

} ESATAP




} DMPTAS


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ESATAP how to get the software









- **Once the software downloaded, you need to ask for a licence.**
- **Start the HOSTID.BAT or HOSTID.SH command as follow:**
 - C:\ESATAP> hostid.bat or \$> ./hostid.sh
- **This generates the HOSTID.DAT.**
- **Send the hostid.dat to support @ esatap.com**
- **After few hours, you will receive your LICENCE.DAT file**
- **Copy the LICENCE.DAT file to the esatap root directory.**


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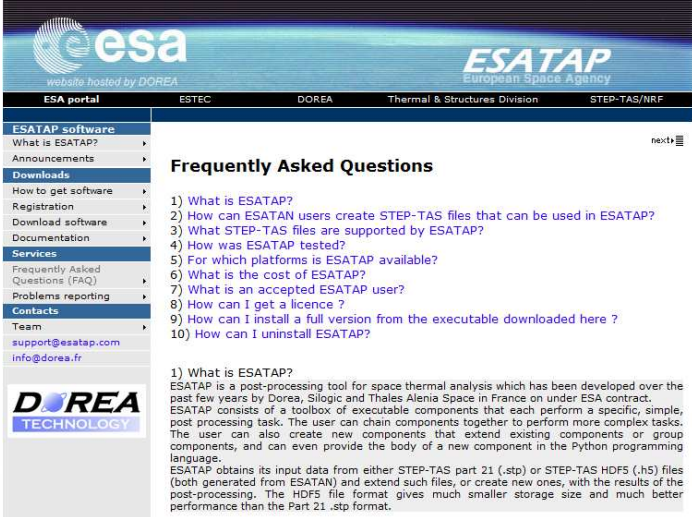
ESATAP Handling SPR





- **Please, help us to improve the software**
- **Read the FAQ before contacting us**



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ESATAP Handling SPR

[Submit a new problem report](#) next

ESATAP bug reporting

Software problems may be reported using a form which needs to be filled and sent back to ESATAP team:

- For all the components of ESATAP: fill the [questionnaire](#) dedicated to ESA software and submit,

To access the Software Problem Reports list, [click here](#). Back to previous page

Create a new SPR

Consult the SPR list

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ESATAP Handling SPR

Create a new SPR

How to fill this form? next

ESATAP Version : SPR N° :
Date :
Originator :

SOFTWARE PROBLEM REPORT

1. SOFTWARE ITEM TITLE:
 ESATAP (GUI) ESATAP (CORE COMPONENT)
 ESATAP (TOOLBOX) ESATAP (DOCUMENTATION)
 DMPTAS

3. PRIORITY:
 Critical Urgent Routine

4. PROBLEM DESCRIPTION:

5. DESCRIPTION OF ENVIRONMENT:
 Windows XP Windows Vista Windows 2000 Linux

6. RECOMMENDED SOLUTION:


7. SOFTWARE REVIEW BOARD DECISION:

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 How to get software
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ESATAP Handling SPR

Consult the list of opened SPRs


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- How to get software >
- Registration >
- Download software >
- Documentation >
- Services**
- Frequently Asked Questions (FAQ) >
- Problems reporting >
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SOFTWARE PROBLEM REPORTS LIST

Environment: All XP/Vista Linux SUN HP

Priority: All Critical Urgent Routine

Status: All Opened Fixed Closed


Releases:

Ref.	Title	Release	Date	Status
ESATAP2-SPR-7	Loading an AP203 STEP Part21 crashes	0.1.1	17/10/07	O
ESATAP2-SPR-8	Problem loading geometrical STEP file	0.1.1	17/10/07	O
ESATAP2-SPR-9	Bad value groupQualifier in CopyModel	0.1.1	17/10/07	O
ESATAP2-SPR-10	Bad value groupQualifier in MergeModel	0.1.1	17/10/07	O
ESATAP2-SPR-13	Unlink message, Duplicate, Paste	0.1.1	17/10/07	O
ESATAP2-SPR-18	Object not found: ALL in ApplyMargin	0.1.1	17/10/07	O
ESATAP2-SPR-26	Unwanted temp. HDF5 file for input files	0.1.1	17/10/07	O
ESATAP2-SPR-27	"Clear" button in the ESATAP TUI window	0.1.1	17/10/07	O
ESATAP2-SPR-33	Keep the last directory chosen.	0.1.1	17/10/07	O
ESATAP2-SPR-34	Merge results dest. file doesn't exist	0.1.1	17/10/07	O
ESATAP2-SPR-40	Graphical wnd Sparkles on progress bar	0.1.1	17/10/07	O
ESATAP2-SPR-48	Not necessary to have always OUTPUT file	0.1.1	18/10/07	O

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SPR filter

 SPR list



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- Announcements >
- Downloads**
- How to get software >
- Registration >
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ESATAP Version : 1.0.2 build 20080531
SPR N° : 85

SOFTWARE PROBLEM REPORT
Date (dd/mm/yy) : 06/10/08

1. SOFTWARE ITEM TITLE:
[ESATAP \(TOOLBOX\)](#)

3. PRIORITY:
Urgent

4. PROBLEM DESCRIPTION:
[CompareDataset component problem](#)

When using the CompareDataset component to compare 2 data sets and assigning each dataset to an input channel, clic King OK shows just one input channel. Again editing the component properties shows that just one input channel exists. The behaviour is repeatable. As a result this component can not be used.

5. DESCRIPTION OF ENVIRONMENT:
Linux

6. RECOMMENDED SOLUTION:

7. SOFTWARE REVIEW BOARD DECISION:
To be fixed

8. COMMENT:

9. STATUS:
Opened

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Consult SPR




ESATAP Coming Soon








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- **Trainings**
 - We elaborated training sessions.
 - Training sessions are performed in site.
 - First training is schedule the 30th of October
 - 2 more trainings are coming in the next 2 months
 - **To arrange a session, contact us.**
- **Demo & Videos**
 - The training excercises will be available soon in November on the web site <http://www.esatap.com>.
 - **New release 1.0.2**
 - Before the end of 2008

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ESATAP contacts








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