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CSDS User Interface ISDAT 2.1 Release Note

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1 Introduction

1.1 Scope of this document

This document describes the *final release*¹ deliverables from IRF-U to ESRIN pertinent to contract ESRIN No. 10855/94/I-GP within the CSDS User Interface Project.

1.2 Acronyms and abbreviations

Acronyms and abbreviations are explained in Table 1.

Acronym	Meaning
AT	Acceptance Test
CDF	Common Data Format
CSDS	Cluster Science data System
ESRIN	European Space Research Institute
IDL	Interactive Data Language
IRF-U	Institutet för Rymdfysik, Uppsalaavdelningen Swedish Inst. of Space Phys., Uppsala Division
ISDAT	Interactive Science Data Analysis Tool
NDC	National Data Centre
SPR	Software Problem Report
SVVP	Software Verification and Validation Plan
UI	User Interface
WEC	Wave Experiment Consortium

Table 1: Acronyms and abbreviations

1.3 Related documents

Some of the CSDS ISDAT 2.1 documents make reference to documents developed within the Cluster WEC data system working group activity. The WEC documents are not a part of this delivery, but they are made available on the ESRIN ftp server for reference. The documents in question are:

1. A description of the ISDAT 2.1 data structure [Ref. 17] stored as file *cwd-obspm-dd-001.ps* in directory *irfu/docs*.
2. A description of joining mechanisms [Ref. 1] stored as file *cwd-obspm-tn-0001.ps* in directory *irfu/docs*.

¹Synonymous to Release 3 and CSDS ISDAT 2.1

1.4 Formats of the delivery

In accordance with previous deliveries by IRF-U within the CSDS User Interface project, no hard products are delivered. All items are delivered on the ESRIN ftp server. The following formats are used:

- Documents are delivered in Postscript format and in some cases also in compressed (zip) Postscript format. To de-compress them: use *unzip file.zip*
- Source code and test files are delivered as *archive* files (tar) that are compressed (gz). To un-compress them use *gunzip file.tar.gz*. To un-pack the un-compressed file do: *tar -xvf file.tar*.

2 Deliverables

The complete CSDS-UI ISDAT 2.1 delivery includes of the following items:

Item 1 Architectural Design Document, see section 3.1, page 2.

Item 2 Detailed Design Document, see section 3.2, page 2.

Item 3 Software Verification and Validation Plan / Acceptance Test Procedure, see section 3.3, page 3.

Item 4 Software Installation Manual, see section 3.4, page 3.

Item 5 User Manuals, see section 3.5, page 3.

Item 6 ISDAT 2.1 software, see section 3.6, page 4.

3 Release Notes

3.1 Item 1: Architectural Design Document

The CSDS ISDAT 2.1 Architectural Design Document [Ref. 3] is delivered as Postscript formatted files *ds-irf-ad-001_10t.ps* and *ds-irf-ad-001_10a.ps* on the ESRIN CSDS project ftp server under directory *irfu/docs*. The complete document is also available in compressed form (zip) in file *ds-irf-ad-001_10.zip*. The document has not been changed since the partial delivery 4 March 1995.

3.2 Item 2: Detailed Design Document

The CSDS ISDAT 2.1 Detailed Design Document [Ref. 4] is delivered as a Postscript formatted file *ds-irf-dd-0001_10.ps* on the ESRIN CSDS project ftp server under directory *irfu/docs*. The complete document is also available in compressed form in file

ds-irf-dd-0001_10.zip. The document has not been changed since the partial delivery 8 March 1995.

3.3 Item 3: SVVP/AT

3.3.1 Test Plan

The CSDS ISDAT 2.1 Software Verification and Validation Plan [Ref. 6] is delivered as a Postscript formatted file *ds-irf-tp-0001.ps*. on the ESRIN CSDS project ftp server under directory *irfu/docs*.

3.3.2 Test procedures and test protocols

All test procedures and protocols, unit tests and acceptance tests, are delivered in an archive, compressed file *test_proc.tar.gz* under directory *irfu/R3* of the ESRIN ftp server. A list of files contained in the file is given in Appendix A.

3.3.3 Test CDF files

A set of CDF files, needed for the tests, is provided in file *test_data.tar.gz* in directory *irfu/R3* of the ESRIN ftp server. A list of the test data files is provided in Appendix B.

3.4 Item 4: Software Installation Manual

The CSDS ISDAT 2.1 Installation Manual [Ref. 5] is delivered as a Postscript formatted file *ds-irf-im-0001_11.ps*. on the ESRIN CSDS project ftp server under directory *irfu/docs*. The document was delivered as a partial delivery 15 March 1995. The content has not been changed, but it is now delivered as issue 1.1 dated 10 April in order to conform with the software user manuals, see section 3.5.

3.5 Item 5: Software User Manual

The software user manuals consist of one cover document and one document for each ISDAT client as well as one separate document for the ISDAT server. The documents were delivered as issue 1.0 March 15. All user manuals have been kept up to date since then with respect to de-bugging, typos and testing results. They are now delivered as issues 1.1 on the ESRIN ftp server under directory *irfu/docs* in Postscript format. The following documents are included:

1. The overall CSDS ISDAT 2.1 user manual [Ref. 7] delivered as file *ds-irf-um-0001_11.ps*
2. The CSDS ISDAT 2.1 server manual [Ref. 8] delivered as file *ds-irf-um-0002_11.ps*

3. The CSDS ISDAT 2.1 cuigr manual [Ref. 9] delivered as file *ds-irf-um-0003_11.ps*
4. The CSDS ISDAT 2.1 cuitm manual [Ref. 10] delivered as file *ds-irf-um-0004_11.ps*
5. The CSDS ISDAT 2.1 cuimeta manual [Ref. 11] delivered as file *ds-irf-um-0005_11.ps*
6. The CSDS ISDAT 2.1 IDL manual [Ref. 12] delivered as file *ds-irf-um-0006_11.ps*
7. The CSDS ISDAT 2.1 user defined C clients manual [Ref. 13] delivered as file *ds-irf-um-0007_11.ps*. This document is also available as only text part in file *ds-irf-um-0007t_11.ps* and only appendicies in file *ds-irf-um-0007a_11.ps*.
8. The CSDS ISDAT 2.1 search client manual [Ref. 14] delivered as file *ds-irf-um-0008_11.ps*
9. The CSDS ISDAT 2.1 cuistat manual [Ref. 15] delivered as file *ds-irf-um-0009_11.ps*

A compressed file *ds-irf-um.zip* containing all user manuals (1 - 9 above) is also provided on the ESRIN ftp server.

3.6 Item 6: ISDAT 2.1 source code

3.6.1 Product files

The CSDS ISDAT 2.1 software is provided in two *archive*, GNU compressed files:

1. File *isdat_csd-2.0.tar.gz* containing the main ISDAT source code. A list of files contained in the archive is given in a separate file *file_list.txt* in the *irfu/R3* directory of the ESRIN ftp server.
2. File *Idl.tar.gz* containing files needed for the IDL interface.

3.6.2 External software versions

The CSDS ISDAT 2.1 sub-system has been tested with the following supporting software versions:

- SUN Solaris 2.4. This is however not in accordance with [Ref. 2] which states Solaris 2.3. The upgrade to Solaris 2.4 is done after a verbal agreement with S Moulin. The software does, however, run without problems also on Solaris 2.3.
- CDF format software 2.4 in accordance with [Ref. 2].
- CDF skeleton version 1.6 in accordance with [Ref. 16]. The ISDAT server can handle input from the proposed version 1.7, however.

3.6.3 ISDAT 2.1 sub-system caveats

- ISDAT 2.1 is not compatible with ISDAT 2.0 delivered as release 2. This means that clients belonging to version 2.0 cannot communicate with a server of version

2.1 and vice versa. This is due to a modification in the data structure [Ref. 17]. The National Data Centres should thus be informed that all 2.0 software should be replaced by ISDAT 2.1 software at the data centres as well as at the user sites.

- After the progress monitor has been in use, the focusing of the current client window does not work until the cursor has made an excursion outside the client window. This is a Motif related problem and it affects clients *search* and *cuigr calculator*. It does not hinder any functionality as long as the user is aware of the problem and de-focus after the progress monitor has been active.

3.6.4 ISDAT 2.1 server caveats

- The *search* function cannot handle status variables. This function is not a formal user requirement but will be implemented in a potential release 4 anyway.
- The server *Csds module* does not check for the existence of the \$CUL_MAP/map and \$CUL_MAP/qty directories, neither does it check if it has write access to them. This may cause the server to crash if using *cuimgen* and cause clients to terminate abnormally.

3.6.5 ISDAT 2.1 cuitm client caveats

There are no known deficiencies in the *cuitm* software.

3.6.6 ISDAT 2.1 cuigr client caveats

- In the *Quantity dialog* window, the scroll functionality is not satisfactory. This is, however, a Motif related problem. It does not hinder any user functionality.
- ISDAT SPR 94 (e-mail from Jordi Pascual), "The user should have the possibility to select right and upper axis tics". This will be implemented in release 4 (ISDAT 2.2).
- ISDAT SPR 95 (e-mail from Jordi Pascual), "It should be possible to have a grid in the plots". This will be implemented in release 4 (ISDAT 2.2).
- There might appear focusing problems in connection with an activation of the progress monitor, see section 3.6.3.
- The CDF generation facility lacks support for some global and variable attributes.
- No warning is given when a user tries to mix data of different time lines in a flat file.

3.6.7 ISDAT 2.1 cuimeta client caveats

There are no known *cuimeta* deficiencies.

3.6.8 ISDAT 2.1 IDL library caveats

- The IDL interface cannot handle vector variables and other variables of complex nature like status variables. This affects the use of status variables and four CSDS data parameters: EDI **E**, FGM **B**, AUX **R₁** and **V₁** (see [Ref. 16]) in IDL clients. This will be corrected in release 4 of the CSDS ISDAT.

3.6.9 ISDAT 2.1 User defined C clients caveats

There are no known deficiencies with respect to user supplied C clients.

3.6.10 ISDAT 2.1 cuistat client caveats

There are no known deficiencies with respect to the *cuistat* client software.

3.6.11 ISDAT 2.1 search client caveats

- Searching in status parameters is not possible. See also section 3.6.4.
- There might appear focusing problems in connection with an activation of the progress monitor, see section 3.6.3.

4 Reference Documents

- [1] The Joining of Cluster WEC Data. Technical Report CWD-OBSPM-TN-0001, Observatoire de Paris a Meudon, September 1994.
- [2] CSDS-UI external interface control document. Technical Report DS-ESR-ID-0001, ESRIN, October 1994. Issue 1.1.
- [3] CSDS User Interface ISDAT 2.1 Architectural Design Document. Technical Report DS-IRF-AD-0001, IRF-U, March 1995. Issue 1.0.
- [4] CSDS User Interface, IRF-U (ISDAT) 2.1 Detailed Design Document. Technical Report DS-IRF-DD-001, IRF-U, March 1995. Issue 1.0.
- [5] CSDS User Interface, ISDAT 2.1 Installation Manual. Technical Report DS-IRF-IM-0001, IRF-U, April 1995. Issue 1.1.
- [6] CSDS User Interface, ISDAT 2.1 Software Verification and Validation Plan. Technical Report DS-IRF-TP-0001, IRF-U, April 1995. Issue 1.0.
- [7] CSDS User Interface, ISDAT 2.1 User Manual. Technical Report DS-IRF-UM-0001, IRF-U, April 1995. Issue 1.1.
- [8] CSDS User Interface, ISDAT 2.1 Server User Manual. Technical Report DS-IRF-UM-0002, IRF-U, March 1995.
- [9] CSDS User Interface, ISDAT 2.1 cuigr Client User Manual. Technical Report DS-IRF-UM-0003, IRF-U, April 1995. Issue 1.1.
- [10] CSDS User Interface, ISDAT 2.1 cuitm User Manual. Technical Report DS-IRF-UM-0004, IRF-U, April 1995. Issue 1.1.
- [11] CSDS User Interface, ISDAT 2.1 ciumeta Client User Manual. Technical Report DS-IRF-UM-0005, IRF-U, April 1995. Issue 1.1.
- [12] CSDS User Interface, Including IDL Clients in the ISDAT 2.1 Client Package. Technical Report DS-IRF-UM-0006, IRF-U, April 1995. Issue 1.1.
- [13] CSDS User Interface, Writing User Defined C Clients to be included in the ISDAT 2.1 Client Package. Technical Report DS-IRF-UM-0007, IRF-U, April 1995. Issue 1.1.
- [14] CSDS User Interface, ISDAT 2.1 search Client User's Manual. Technical Report DS-IRF-UM-0008, IRF-U, April 1995. Issue 1.1.
- [15] CSDS User Interface ISDAT 2.1 cuistat Client User Manual. Technical Report DS-IRF-UM-0009, IRF-U, April 1995. Issue 1.1.
- [16] Reference document for CSDS CDF implementation. Technical Report DS-QMW-TN-0003, Queen Mary and Westfield College, October 1994. Issue 1.1.
- [17] WECdata structure working group. Editor C. Harvey. The structure of the WEC/ISDAT data. Technical Report CWD-OBSPM-DD-001, OBSPM, March 1995.

A CSDS ISDAT 2.1 Test Procedure Files

2 isdat_test/IT-AT/AT01.ctm
2 isdat_test/IT-AT/AT01.igr
26 isdat_test/IT-AT/AT01.flat
2 isdat_test/IT-AT/AT02.ctm
4 isdat_test/IT-AT/AT02.igr
2 isdat_test/IT-AT/AT10.ctm
4 isdat_test/IT-AT/AT02-1.igr
26 isdat_test/IT-AT/AT02-1.flat
2 isdat_test/IT-AT/AT03.ctm
2 isdat_test/IT-AT/AT03.igr
32 isdat_test/IT-AT/AT03.flat
2 isdat_test/IT-AT/AT04.ctm
2 isdat_test/IT-AT/AT04.igr
2 isdat_test/IT-AT/AT16.ctm
2 isdat_test/IT-AT/AT05.ctm
2 isdat_test/IT-AT/AT05.igr
2 isdat_test/IT-AT/AT06.ctm
2 isdat_test/IT-AT/AT06.igr
2 isdat_test/IT-AT/AT06-1.igr
2 isdat_test/IT-AT/AT09.ctm
2 isdat_test/IT-AT/AT09.igr
2 isdat_test/IT-AT/AT07.ctm
4 isdat_test/IT-AT/AT07.igr
2 isdat_test/IT-AT/AT09.sea
4 isdat_test/IT-AT/AT07-1.igr
78 isdat_test/IT-AT/it_proc.txt
2 isdat_test/IT-AT/AT08.ctm
2 isdat_test/IT-AT/AT08.igr
38 isdat_test/IT-AT/AT08.flat
2 isdat_test/IT-AT/AT13.ctm
2 isdat_test/IT-AT/AT17.ctm
4 isdat_test/IT-AT/AT17.igr
4 isdat_test/IT-AT/AT_VI_1.txt
4 isdat_test/IT-AT/query_result.res
2 isdat_test/IT-AT/AT09-1.ctm
4 isdat_test/IT-AT/AT09-1.igr
2 isdat_test/IT-AT/AT09-1.sea
2 isdat_test/IT-AT/AT11.ctm
4 isdat_test/IT-AT/AT11.mta
2 isdat_test/IT-AT/AT12.ctm
2 isdat_test/IT-AT/AT14.igr
2 isdat_test/IT-AT/AT12.igr
26 isdat_test/IT-AT/AT12.ps
2 isdat_test/IT-AT/AT14.ctm
2 isdat_test/IT-AT/AT14.flat
2 isdat_test/IT-AT/AT15.ctm
2 isdat_test/IT-AT/AT19.ctm
2 isdat_test/IT-AT/AT19.igr
2 isdat_test/IT-AT/AT21.igr
2 isdat_test/IT-AT/AT21.ctm
2 isdat_test/IT-AT/AT22.ctm
2 isdat_test/IT-AT/AT22.igr
2 isdat_test/IT-AT/AT07.igt

40 isdat_test/IT-AT/AT13.flat
2 isdat_test/IT-AT/AT02-2.flat
54 isdat_test/IT-AT/CL_HM_MIX_19681018_V01_EXTN.cdf
438 isdat_test/IT-AT
20 isdat_test/UT/csds_module/csds_ut_proc.txt
2032 isdat_test/UT/csds_module/igr_save.flat
16 isdat_test/UT/csds_module/950418/csds_ut_proc.txt
18 isdat_test/UT/csds_module/950418
2072 isdat_test/UT/csds_module
30 isdat_test/UT/search/search_ut_proc.txt
2 isdat_test/UT/search/search_save
2 isdat_test/UT/search/search_load.sea
2 isdat_test/UT/search/950418/search_load.sea
2 isdat_test/UT/search/950418/search_save
24 isdat_test/UT/search/950418/search_ut_proc.txt
30 isdat_test/UT/search/950418
66 isdat_test/UT/search
28 isdat_test/UT/calculator/calc_ut_proc.txt
24 isdat_test/UT/calculator/950411/calc_ut_proc.txt
26 isdat_test/UT/calculator/950411
22 isdat_test/UT/calculator/950418/calc_ut_proc.txt
24 isdat_test/UT/calculator/950418
80 isdat_test/UT/calculator
6 isdat_test/UT/cuigr/conf.igr.001
26 isdat_test/UT/cuigr/cuigr_proc.txt
4 isdat_test/UT/cuigr/igr.flat.001
28 isdat_test/UT/cuigr/igr.ps.001
32 isdat_test/UT/cuigr/cuigr_ut_proc.txt
30 isdat_test/UT/cuigr/1995-04-18/cuigr_ut_proc.txt
6 isdat_test/UT/cuigr/1995-04-18/ut.igr
2 isdat_test/UT/cuigr/1995-04-18/ut.ctm
28 isdat_test/UT/cuigr/1995-04-18/igr.ps
4 isdat_test/UT/cuigr/1995-04-18/igr.flat
72 isdat_test/UT/cuigr/1995-04-18
170 isdat_test/UT/cuigr
1712 isdat_test/UT/cuistat/cuistat_UT.tar
2 isdat_test/UT/cuistat/README
158 isdat_test/UT/cuistat/cuistat.asc.ori
240 isdat_test/UT/cuistat/cuistat.dec.ori
256 isdat_test/UT/cuistat/cuistat.hex.ori
16 isdat_test/UT/cuistat/cuistat_ut_proc.txt
14 isdat_test/UT/cuistat/1995-04-18/cuistat_ut_proc.txt
256 isdat_test/UT/cuistat/1995-04-18/cuistat1.res
158 isdat_test/UT/cuistat/1995-04-18/cuistat2.res
240 isdat_test/UT/cuistat/1995-04-18/cuistat3.res
670 isdat_test/UT/cuistat/1995-04-18
3056 isdat_test/UT/cuistat
80 isdat_test/UT/cuitm/cuitm_UT.tar
2 isdat_test/UT/cuitm/README
2 isdat_test/UT/cuitm/query_result.res.1
4 isdat_test/UT/cuitm/query_result.res.2
26 isdat_test/UT/cuitm/cuitm_ut_proc.txt
6 isdat_test/UT/cuitm/catalog_ut_proc.txt
6 isdat_test/UT/cuitm/1995-04-18/catalog_ut_proc.txt
26 isdat_test/UT/cuitm/1995-04-18/cuitm_ut_proc.txt
34 isdat_test/UT/cuitm/1995-04-18

```
156 isdat_test/UT/cuitem
4 isdat_test/UT/cuimeta/950411/meta_ut_expected.d
12 isdat_test/UT/cuimeta/950411/meta_ut_proc.txt
18 isdat_test/UT/cuimeta/950411
12 isdat_test/UT/cuimeta/meta_ut_proc.txt
4 isdat_test/UT/cuimeta/meta_ut_expected.d
12 isdat_test/UT/cuimeta/1995-04-18/meta_ut_proc.txt
4 isdat_test/UT/cuimeta/1995-04-18/cuimeta_ut_result.d
0 isdat_test/UT/cuimeta/1995-04-18/cuimeta_ut_diff.d
18 isdat_test/UT/cuimeta/1995-04-18
54 isdat_test/UT/cuimeta
5656 isdat_test/UT
6096 isdat_test
```

B CSDS ISDAT 2.1 Test Data CDF Files

1360 PP/EFW/C1/C1_PP_EFW_19960101_V00.CDF
1920 PP/EFW/C1/C1_PP_EFW_19960102_V00.CDF
1920 PP/EFW/C1/C1_PP_EFW_19960110_V00.CDF
5202 PP/EFW/C1
2 PP/EFW/C2
2 PP/EFW/C3
2 PP/EFW/C4
5210 PP/EFW
48 PP/DWP/C1/C1_PP_DWP_19970123_V00.cdf
50 PP/DWP/C1
48 PP/DWP/C2/C2_PP_DWP_19970123_V00.cdf
50 PP/DWP/C2
48 PP/DWP/C3/C3_PP_DWP_19970123_V00.cdf
50 PP/DWP/C3
48 PP/DWP/C4/C4_PP_DWP_19970123_V00.cdf
50 PP/DWP/C4
202 PP/DWP
42 PP/FGM/C4/C4_PP_FGM_19970123_V00.cdf
528 PP/FGM/C4/C4_PP_FGM_19681018_V00.cdf
572 PP/FGM/C4
42 PP/FGM/C3/C3_PP_FGM_19970123_V00.cdf
528 PP/FGM/C3/C3_PP_FGM_19681018_V00.cdf
572 PP/FGM/C3
42 PP/FGM/C2/C2_PP_FGM_19970123_V00.cdf
384 PP/FGM/C2/C2_PP_FGM_19681018_V00.cdf
428 PP/FGM/C2
42 PP/FGM/C1/C1_PP_FGM_19970123_V00.cdf
592 PP/FGM/C1/C1_PP_FGM_19681018_V00.cdf
636 PP/FGM/C1
2210 PP/FGM
52 PP/PEA/C1/C1_PP_PEA_19970123_V00.cdf
54 PP/PEA/C1
52 PP/PEA/C2/C2_PP_PEA_19970123_V00.cdf
54 PP/PEA/C2
52 PP/PEA/C3/C3_PP_PEA_19970123_V00.cdf
54 PP/PEA/C3
52 PP/PEA/C4/C4_PP_PEA_19970123_V00.cdf
54 PP/PEA/C4
218 PP/PEA
2336 PP/WHI/C1/C1_PP_WHI_19991231_V00.cdf
2432 PP/WHI/C1/C1_PP_WHI_20000101_V00.cdf
4770 PP/WHI/C1
2336 PP/WHI/C2/C2_PP_WHI_19991231_V00.cdf
2464 PP/WHI/C2/C2_PP_WHI_20000101_V00.cdf
4802 PP/WHI/C2
2336 PP/WHI/C3/C3_PP_WHI_19991231_V00.cdf
2464 PP/WHI/C3/C3_PP_WHI_20000101_V00.cdf
4802 PP/WHI/C3
2336 PP/WHI/C4/C4_PP_WHI_19991231_V00.cdf
2464 PP/WHI/C4/C4_PP_WHI_20000101_V00.cdf
4802 PP/WHI/C4
19178 PP/WHI
27020 PP

140 SP/EFW/CL_SP_EFW_19960101_V00.CDF
180 SP/EFW/CL_SP_EFW_19960102_V00.CDF
180 SP/EFW/CL_SP_EFW_19960110_V00.CDF
502 SP/EFW
480 SP/AUX/CL_SP_AUX_19970101_V00.cdf
480 SP/AUX/CL_SP_AUX_19970102_V00.cdf
962 SP/AUX
320 SP/CIS/CL_SP_CIS_19991231_V00.cdf
320 SP/CIS/CL_SP_CIS_20000101_V00.cdf
642 SP/CIS
42 SP/DWP/CL_SP_DWP_19970123_V00.cdf
44 SP/DWP
42 SP/FGM/CL_SP_FGM_19970123_V00.cdf
74 SP/FGM/CL_SP_FGM_19681018_V00.cdf
118 SP/FGM
52 SP/PEA/CL_SP_PEA_19970123_V00.cdf
54 SP/PEA
240 SP/WHI/CL_SP_WHI_19991231_V00.cdf
256 SP/WHI/CL_SP_WHI_20000101_V00.cdf
498 SP/WHI
2822 SP
29844 CLUSTER