Instrument Specific Software for JEM-X
Architectural Design Document 5.0

REVIEW II

Edited by Carol Anne Oxborrow
Danish Space Research Institute

April 26, 2000

DSRI
Danish Space Research Institute
Juliane Maries Vej 30
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Contents

Chapter 1

The RIDS

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JEM-X ADD RID

Review Item Discrepancy		RID no	1
Inconsistency		Date	12/04/2000

Originator: C.A Oxborrow, DSRI, oxborrowdsri.dk

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: pp 206, 207, 223

Problem Description: Both data structures JMXi-OBG-IDX must have valid data structres as their member extensions. SUN_ASPECT is not a valid column name for an index table since it is more than 8 characters long and therefore unacceptable as a keyword name in the indexed extension. JMXi-SPAT-IBG, which is the correct indexed element of JMXi-OIBG-IDX, is missing the keywords by which it is index: DEC_SCX, RA_SCX SUN_ASPECT and XYZPOS. Also, SUN_ASPECT cannot be used as a keyword name here.

Recommended Solution: Edit *-IDX files so that JMXi-SPAT-DBG and JMXi-SPAT-IBG are the indexed extensions. Change SUN_ASPECT to SUN_ASPT in JMXi-SPAT-IBG and JMXi-OIBG-IDX. Include all keywords in JMXi-SPAT-IBG

Author's Response: RID accepted, edits have been made

Responding Author: Sami Maisala, Helsinki, Sami.Maisalahelsinki.fi

Review Decision: Accepted

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	2
Inconsistency	Date	13/04/2000

Originator: Tim Lock, ISDC

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: page 18

Problem Description: SWG1 shows JMXi-CSSW-HRW as input to j_data_preparation, but JMXi-CSSW-HRW is not shown elsewhere in the A.D.D.

Recommended Solution: Please clarify and update.

Author's Response: CAO for ADD: According to the index JMXi-CSSW-HRW is used as input to components on pp. 165 171 162 70 79 and 43. The last of these is the deadtime calculation component in j_data_preparation which reads the numbers of different sorts of rejected events from this data structure. The data structure itself is listed briefly on p.179 of the ADD – its full description is available from the ISDC webpage. PK: The overview drawings lack a connecting arrow from JMXi-CSSW-HRW to j_bkg_model (p. 18 and 19). This will be corrected.

Responding Author: C.A. Oxborrow and P. Kretschmar

Review Decision: Accepted: clarifications will be made in the document and figures

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

# Review Item Discrepancy	RID no	3
Feasibility	Date	13/04/2000

Originator: Tim Lock, ISDC

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: page 45, figure 3.3

Problem Description: There are black arrowed lines between "repositories", please explain what they mean and how any action implied is to be implemented.

Recommended Solution: Remove black arrowed lines, such a diagram cannot support any such implied movement, action or connection

Author's Response: The arrows are supposed to indicate that the **-IDX extensions index, or point to, the multiple instances of the data structures indicated. The two sorts of extensions, index tables and data extensions will not be in the same repository, since the latter may be scattered throughout the various SWGs, yet there is a logical link between them. Perhaps I should find a better symbol for indicating this with the word 'indexes' or 'points to' next to it. Would you settle for a dotted line, dotted arrow, thin line with thin arrow head?

Responding Author: C.A. Oxborrow

Review Decision: Closed: figures to be amended to indicate 'points to'

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	4
Inconsistency	Date	13/04/2000

Originator: Tim Lock, ISDC

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: Page 227, section 4.5

Problem Description: The progressive coverage of Data Structures is not clear. Section 4.4 talks of new data structures - i.e. for discussion, finalisation and agreement. Section 4.2 and 4.3 cover agreed structures, so what is the meaning of "other" in section 4.5 ?

Recommended Solution: Explain the purpose of listing these data structures here more clearly. See next RID from TL as well

Author's Response: The data structures are split up in decreasing order of clarity of definition. A paragraph to indicate this split will be added on p.77. Basically we have: templates of data structures already used in software delivered to ISDC and hence included in the latest Reference Platform; data structures used in ISSW currently under developement and hence well defined, though not approved; and finally data structures that are foreseen but not defined at all, these are supplied with a brief description only for completeness. All data structures can be located somewhere by looking in the index.

Responding Author: C.A. Oxborrow

Review Decision: Accepted: explanatory note to be added to ADD

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	5
Feasibility	Date	13/04/2000

Originator: Tim Lock, ISDC

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: Page 227, section 4.5

Problem Description: I disagree with the statement: ".... and so do not require any formal template specification" That is surely a mistake, there are/will be so many agreed data structures, to allow uncontrolled, so-called internal, data structures seems to be a turn in the wrong direction.

Recommended Solution: Simply identify and agree on all data structures, it will lead to future clarity and traceability.

Author's Response: CAO for SDAST: Our understanding was that intermediate data will not be archived and therefore do not need a formal description. This is my understanding of ISDC policy. If this should change then we will provide formal templates. See for example pp.200 and 209. Personally, I would prefer full configuration control of all data structures. PK for ISDC: While ISDC allows in principle to have 'uncontrolled' intermediate data structures between several tightly connected executables, it largely prefers to have all data structures registered correctly and formally. Thus, we should provide templates for all data structures used by JEM-X ISSW.

Responding Author: C.A. Oxborrow and P. Kretschmar

Review Decision: Accepted: all data structures will be under full configuration control

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	6
Feasibility	Date	13/04/2000
Originator: Tim Lock, ISDC		
Document Title: Instrument Specific Software for JEM-X: Architectural Design Document		
Document Reference Number: SDAST/ADD		
Document Revision Number: 5.0		
Problem Location: Page 20, Fig 2.4		
Problem Description: One of the upper boxes in the diagram is called - Interactive Operational Processing. The name implies that a task necessary for ISDC operations needs to be done manually by someone. This should be clarified fully in the A.D.D. and ISDC operations group should note the operational procedural implications. .		
Recommended Solution: Flag clearly in the document and under the "comments" for the appropriate component descriptions that certain operational tasks are not automatic, but rely on an operator (or other-specify) intervention. I.E. flag the manual tasks !		
Author's Response: This field will be written by the relevant author		
Responding Author: S. Maisala		
Review Decision: This field will be written by the review panel		

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

# Review Item Discrepancy	RID no	7
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p.7, Sect. 2.3 Software Requirements, par. 2

Problem Description: The last sentence of this paragraph ("For example, binning ... normally produced by Spectral Mode") is no longer correct.

Recommended Solution: Either just erase sentence or replace by a sentence that better matches the actual processing.

Author's Response: The end of the paragraph will be replaced by: ....into data with lesser information content: for example, binning event data obtained with Full Imaging mode into spectra and lightcurves.

Responding Author: C.A. Oxborrow

Review Decision: Accepted: text will be changed

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	8
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 9, Sect. 2.4

Problem Description: It is not clear if the header file **jemx.h** is a separately delivered entity or not.

Recommended Solution: Following ISDC's policies, clarify that this header file will be individually delivered with each executable.

Author's Response: The following sentence will be added to the end of section 2.4: "The common ISSW header jemx.h will be updated and delivered with each delivery module sent to ISDC. It is not delivered as a separate package. Care however, must be taken to ensure that each update maintains backwards compatibility with previous versions."

Responding Author: C.A. Oxborrow

Review Decision: Accepted: clarification will be added to ADD

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	9
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 13, Sect. 2.4.6

Problem Description: The description of **j_bin_evts_spectra** is incorrect. This executable can bin most types of events.

Recommended Solution: Correct description to: Bins JEM-X event data to spectra, excluding Timing events.

Author's Response: The change is accepted

Responding Author: C.A. Oxborrow

Review Decision: Accepted: description will be changed

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	10
Editorial/clarification	Date	12/04/2000
Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch		
Document Title: Instrument Specific Software for JEM-X: Architectural Design Document		
Document Reference Number: SDAST/ADD		
Document Revision Number: 5.0		
Problem Location: p. 15, Sect. 2.4.9		
Problem Description: **j_src_data_extract** is incorrectly assigned to ISDC V3.		
Recommended Solution: Change to ISDC V2.		
Author's Response: The change is accepted		
Responding Author: C.A. Oxborrow		
Review Decision: Accepted: the change in the text will be made		

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	11
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 15, Sect. 2.4.10

Problem Description: The lightcurves produced by j_sci_lc are not read and analyzed by XSPEC.

Recommended Solution: Change "XSPEC" to "generic time analysis tools".

Author's Response: The change is accepted

Responding Author: C.A. Oxborrow

Review Decision: Accepted: the change will be made in the text

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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Review Item Discrepancy	RID no	12
Alternative approach	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 16, Sect. 2.4.12

Problem Description: The description of **j_ksc_position_cor** states that maxima in the shadowgram will be compared with a catalogued shadowgram. This might be difficult to do correctly since the satellite will probably never exactly match the attitude of the catalogued pointing.

Recommended Solution: Either foresee a correction step for the difference in pointing or use simulated data for comparison.

Author's Response: You are absolutely right. I think we have to use simulated data anyway (We do not have catalogued shadowgrams). When we then later have all those catalogued shadowgarams we have to try foresee the corrections and interpolate the most appropriate model.

Responding Author: S. Maisala, J. Huovelin

Review Decision: Accepted: a clarifying remark will be added to the description of j_ksc_position_cor

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	13
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 18+19, Fig. 2.2 and Fig. 2.3

Problem Description: **j_data_binning** has no inputs in Figures 2.2 and 2.3.

Recommended Solution: Add input arrow from "corrected data" to both figures.

Author's Response: Additions accepted

Responding Author: P. Kretschmar

Review Decision: Accepted: both figures will be corrected

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	14
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 39, **j-prp-status-table**

Problem Description: The **Parameters** contain "Input *Software* Window Group" and "Output *Software* Window Group".

Recommended Solution: Change "Software" to "Science".

Author's Response: Change accepted

Responding Author: C.A. Oxborrow

Review Decision: Accepted: correction will be made in the text

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	15
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 96, **j-bin-bkg-lc**

Problem Description: Under **Function** it says: "Bin background model data to *spectra*."

Recommended Solution: Change "spectra" to "lightcurves".

Author's Response: Change accepted

Responding Author: P. Kretschmar

Review Decision: Accepted: corrections will be made in the text

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	16
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 98, 101, 111, 114, 118, 121

Problem Description: Unknown data structure `JMXi-CVIG-MOD`.

Recommended Solution: Should probably be replaced with `JMXi-VIGN-MOD`.

Author's Response: Recommended solution accepted.

Responding Author: N.J. Westergaard

Review Decision: Accepted: change data structure name

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	17
Inconsistency	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 98ff, **j-imaging-ql**, **j-imaging-sa**

Problem Description: The ouptput data structures `JMXi-SRLC-QLK` and `JMXi-SRLC-SFR`, mentioned in the descriptions of several components, are not known to the generic software used in the QLA and SA subsystems.

Recommended Solution: Always use `JMXi-SRLC-RES`. Since QLA and SA operate in different environments there is no risk of confusion.

Author's Response: Recommended solution accepted.

Responding Author: N.J. Westergaard

Review Decision: Accepted: only one data structure name will be used

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	18
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 98ff, **j-imaging-ql/sa**

Problem Description: It is unclear if these scripts and executables will work on a single JEM-X detector at a time or on both at once.

Recommended Solution: Have them work on each detector independently. Include a parameter specifying the detector in all executable and script descriptions.

Author's Response: Recommended solution accepted.

Responding Author: N.J. Westergaard

Review Decision: Accepted: ISSW treats each detector separately with input parameter to indicate which detector is being handled

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	19
Alternative approach	Date	12/04/2000
Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch		
Document Title: Instrument Specific Software for JEM-X: Architectural Design Document		
Document Reference Number: SDAST/ADD		
Document Revision Number: 5.0		
Problem Location: p. 103, **j-ima-shadowgram**		
Problem Description: The functional description states that in the case of mixed telemetry modes, the binning will be defined by the constrains of Restricted Imaging mode. This may not always be in the interest of the user, who might want to exploit the time and energy resolution of Full Imaging mode data, even if it covers only part of the Science Window.		
Recommended Solution: Include a parameter to chose either Full, Restricted or both kinds of events.		
Author's Response: Recommended solution accepted.		
Responding Author: N.J. Westergaard		
Review Decision: Accepted		

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	20
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 105, **j-ima-basic-recon**

Problem Description: The **Processing** description, refers to unknown `JMXi-BKG?-???` data structures.

Recommended Solution: Change wording of this description.

Author's Response: This will be updated in compliance with the background part of the ADD.

Responding Author: N.J. Westergaard

Review Decision: Accepted: Data structures will be updated

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy		RID no	21
Editorial/clarification		Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 114, **j-ima-sa-basic-recon**

Problem Description: The **Function** description repeats the text from **j-ima-*ql*-basic-recon**

Recommended Solution: Correct description.

Author's Response: Recommended solution accepted.

Responding Author: N.J. Westergaard

Review Decision: Accept: description will be updated

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	22
Editorial/clarification	Date	12/04/2000
Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch		
Document Title: Instrument Specific Software for JEM-X: Architectural Design Document		
Document Reference Number: SDAST/ADD		
Document Revision Number: 5.0		
Problem Location: p. 142ff, **j-known-src-calib**		
Problem Description: The delivery date is given as June 2000–January *2000*.		
Recommended Solution: Change to January *2001*.		
Author's Response: Noticed and corrected.		
Responding Author: S. Maisala, J. Huovelin		
Review Decision: Accepted: correction will be made		

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	23
Inconsistency	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 162ff, **j-bkg-interactive**

Problem Description: The design of this component and its output data strcuctures seem somewhat unclear: (1) **j-bkg-interactive** calls **j-bkg-int-model** but seems to have no other children. Why have the intermediate level at all? The processing description mentions that **j-ima-shadowgram** is called, but this is nowhere shown in the figure and not mentioned as subordinate component. (2) It is not clear at all what the production of the shadowgram does within this component. This should be part of **j-imaging-****. (3) The output data structures `JMXi-EVWT-BKG`, `JMXi-SPEC-BKG`, `JMXi-SPAT-INT`, `JMXi-SPEC-INT`, and `JMXi-SCAL-INT` do not seem to be used anywhere.

Recommended Solution: Rework description thoroughly: (1) Either specify more direct children of **j-bkg-interactive**, or eliminate intermediate level **j-bkg-int-model**. (2) Clarify connection to **j-imaging-****. Possibly limit this tool to background selection. (3) Describe use of these data structures or delete them from the ADD.

Author's Response:
(1) Yes I noticed inconcistency in text and subordinate components. I have to specify direct childrens better and there is a mistake in figure The intermediate level was there because the idea was to make possible to select spatial, spectral and scaling factors indenpendently and that data was intermediate. I have now removed the intermediate level.
(2) This component is one of interactive GUI tools. j-imaging-** was there that user could 'see' the chosen background shadowgram. I think I do not need that component there anymore because GUIs are based on OSM and I can use that interface to show images. It is now removed
(3) -INT datastrctures are removed. The output data structures `JMXi-EVWT-BKG`, `JMXi-SPEC-BKG` are the scaled results after analysis.

Responding Author: S. Maisala, J. Huovelin

Review Decision: Accepted: the relevant changes will be made in the description of j-bkg-interactive

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	24
Invalid assumptions	Date	12/04/2000

Originator: Reiner Rohlfs, ISDC, reiner.rohlfs@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 138, **j-perf-analysis**

Problem Description: The basic functionality described for this component (plot, correlation, fit) is already included in ROOT and thus automatically available in **j-perf-plot-display**. It is unclear what the output data `JMXi-PERF-INT` would contain (screen dump?, PS copy of plot?).

Recommended Solution: Specify clearly if capabilities beyond those available automatically in ROOT are required. Define program outputs better. Possibly eliminate component.

Author's Response: This is V3 component and the plan is quite old. The application is still under developement. I'm not quite sure what is the ISDC policy in GUIs. When we really decide how to use GUIs I can make the working scheme which is based on ROOT. The output data `JMXi-PERF-INT` is a screen dump.

Responding Author: S. Maisala, J. Huovelin

Review Decision: Open: This component still needs better definition, especially where the GUI interface with ROOT is concerned.

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	25
Invalid assumptions	Date	12/04/2000

Originator: Reiner Rohlfs, ISDC, reiner.rohlfs@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 133ff, **j-performance**

Problem Description: As the description states, most or all of the required tools could be set up re-using software written for OSM. For the functionality this is correct but the OSM S/W is only able to read data in very precise formats and thus not able to read the various input data structures listed in the description. Also it is not clear how data will be found that is not part of SWGs.

Recommended Solution: Specifiy clearly that OSM S/W will be re-used. Include executables to generate data in OSM-compatible format (time history, analogous to HK data) from calibration and other data. Specify data structures to be read by performance display and analysis tools, preferably with a single ending (e.g. "`-PER`"). Design encompassing group for this data together with ISDC.

Author's Response: This field will be written by the relevant author

Responding Author: S. Maisala, J. Huovelin

Review Decision: This field will be written by the review panel

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	26
Inconsistency	Date	13/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 98ff & p. 111ff, **j-imaging-ql** & **j-imaging-ql**

Problem Description: The overview drawings and component descriptions contain no reference to the use of Index data structures to administrate multiple shadowgrams and images. But from previous discussions and prototype software (OSim) it is known that such will be used.

Recommended Solution: Include precise description of Index Group usage in drawings and descriptions.

Author's Response: Recommended solution accepted.

Responding Author: N.J. Westergaard

Review Decision: Accepted: imaging component descriptions will be updated to include description of the use of Index tables to handle multiple shadowgrams and images

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

# Review Item Discrepancy	RID no	27
Inconsistency	Date	13/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 98ff & p. 111ff, **j-imaging-ql** & **j-imaging-ql**

Problem Description: The drawings and component descriptions do not describe how the he required instrument model data structures (`-MOD`) are found. From the document text it could be assumed that they were children of the SWG which will not be the case.

Recommended Solution: Describe precisely how these data structures will be found, e.g., by a master group. Indicate different sources in drawings and descriptions.

Author's Response: Recommended solution accepted.

Responding Author: N.J. Westergaard

Review Decision: OPEN: we need to discuss how -MOD files will be found since this is not clear at the moment. What is ISDC's policy here?

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	28
Inconsistency	Date	13/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 118ff, **j-src-extract**

Problem Description: The drawings and component descriptions do not describe how the required instrument model data structures (`-MOD`) are found. From the document text it could be assumed that they were children of the SWG which will not be the case.

Recommended Solution: Describe precisely how these data structures will be found, e.g., by a master group.

Author's Response: This is an as-yet unresolved problem that must be discussed in the review meeting with representatives of ISDC. Corrections to the description will be made in line with the information unearthed during the meeting. The location of -MOD files in the ISDC archive system is as yet unknown to members of SDAST

Responding Author: S. Larsson

Review Decision: This field will be written by the review panel

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Danish Space Research Institute
Juliane Maries Vej 30
DK-2100 Copenhagen

JEM-X ADD RID

Review Item Discrepancy	RID no	29
Editorial/clarification	Date	13/04/2000
Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch		
Document Title: Instrument Specific Software for JEM-X: Architectural Design Document		
Document Reference Number: SDAST/ADD		
Document Revision Number: 5.0		
Problem Location: p. 118, **j-src-extract**		
Problem Description: There is no overview drawing for this component showing the rough data and control flow.		
Recommended Solution: Supply one.		
Author's Response: A figure will be provided for this component		
Responding Author: S. Larsson		
Review Decision: Accepted: new figure will be added to ADD		

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Danish Space Research Institute
Juliane Maries Vej 30
DK-2100 Copenhagen

JEM-X ADD RID

Review Item Discrepancy	RID no	30
Editorial/clarification	Date	12/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 128, **j-sci-format**

Problem Description: There is no overview drawing for this component showing the rough data and control flow.

Recommended Solution: Supply one.

Author's Response: A figure will be provided for this component

Responding Author: S. Larsson

Review Decision: Accepted

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	31
Inconsistency	Date	13/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 118ff, **j-src-extract**

Problem Description: In several places the obsolete data structure name `JMXi-SRLC-SFR` is used.

Recommended Solution: Replace in all cases by `JMXi-SRLC-RES`.

Author's Response: The new data structure name will be used in all relevant places in the document

Responding Author: S. Larsson

Review Decision: Accepted: the current data structure name will be used

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	32
Inconsistency	Date	13/04/2000

Originator: Stphane Paltani, ISDC, Stephane.Paltani@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: Sect 4.2, pp. 178-185

Problem Description: Several data structures appear in the list of "Jem-X data structures in Reference Platform", while they are not. As far as I can tell, they are remains of old non-ISSW ADD's. The data structures are: JMXi-CYCL-CNV, JMXi-DRV1-DRV, JMXi-SPR1-SCP, JMXi-SRCL-SFR

Recommended Solution: Remove them!

Author's Response: These data structures are taken from the JEMX Data Structure Definition Document, however, this is clearly obsolete. These data structures while apparently no longer valid ISDC data structures are still used by j_performance and j_src_extract: hence they cannot merely be removed but must be replaced with other, more up-to-date data structures. This will be done after consultation with the responsible developpers for these components.

Responding Author: C.A. Oxborrow

Review Decision: Still to be written

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Danish Space Research Institute
Juliane Maries Vej 30
DK-2100 Copenhagen

JEM-X ADD RID

Review Item Discrepancy	RID no	33
Inconsistency	Date	13/04/2000

Originator: Stephane Paltani, ISDC, Stephane.Paltani@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: Sect 4.2, pp. 179-180

Problem Description: Because of CFITSIO limitations, the name of the columns extracted from the database must be slightly modified. Therefore several column names of the JMXi-CSSW-HRW must be modified: ”_” becomes ”__”, ”+” becomes ”_P”, ”-” becomes ”_M”, ”,” becomes ”_K”; and parameter names starting with a number must be prepanded with a ”_”. For instance, ”5VDC_SEC_V” will become ”_5VDC__SEC__V”. This change will be made in the next reference platform.

Recommended Solution: Modify them accordingly!

Author's Response: These changes will be made in the data structure summary

Responding Author: C.A. Oxborrow

Review Decision: Accepted: changes will be made in the text

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	34
Alternative approach	Date	13/04/2000
Originator: Stephane Paltani, ISDC, Stephane.Paltani@obs.unige.ch		
Document Title: Instrument Specific Software for JEM-X: Architectural Design Document		
Document Reference Number: SDAST/ADD		
Document Revision Number: 5.0		
Problem Location: Sect 4.4.1-4.4.4, pp. 187-190		
Problem Description: Instead of defining 8 data structures for the absorption by different material, why wouldn't you define a single "JEMX-ABSO-MOD" table that contains the energy and 4 columns.		
Recommended Solution: Implement my proposal!		
Author's Response: There are two reasons for the chosen solution: 1) It is easier to change a single data structure in the case that new and better data appear 2) The energy scales may differ. The recommandation will not be applied unless more arguments in that direction are put forward.		
Responding Author: N.J. Westergaard		
Review Decision: Rejected		

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

# Review Item Discrepancy	RID no	35
Inconsistency	Date	13/04/2000

Originator: Stephane Paltani, ISDC, Stephane.Paltani@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: Many pages...

Problem Description: As gamma-ray background is only due to instrument, ISDC has chosen the name -BKG instead of -IBG. For overall consistency of the naming scheme, I would like that all -IBG data structures be named -BKG. -DBG is OK!

Recommended Solution: Implement my request, please!

Author's Response: Because it is very important to all of us that we have a consictency of the naming scheme I accept a proposal as it has suggested above.

Responding Author: S. Maisala, J. Huovelin

Review Decision: Accepted: data structures will be renamed as suggested

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	36
Editorial/clarification	Date	13/04/2000

Originator: Stephane Paltani, ISDC, Stephane.Paltani@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: pp 210-211

Problem Description: An index is defined for "JMXi-RSTI-INT" data structure, but not for "JMXi-RSTI-IMA" data structure, while NJW told me it was foreseen. To avoid a name clash, I propose that the index of "JMXi-RSTI-INT" be named "JMXi-RINT-IDX", and that of "JMXi-RSTI-IMA" "JMXi-RSTI-IDX", as it is the one that contain final results

Recommended Solution: Add an index and decide for a non-clashing name

Author's Response: JMXi-RSTI-INT is a misprint. It should have been JMXi-RSTI-IMA.

Responding Author: N.J. Westergaard

Review Decision: Accepted: misprint will be corrected

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Danish Space Research Institute Juliane Maries Vej 30 DK-2100 Copenhagen	JEM-X ADD RID

Review Item Discrepancy	RID no	37
Editorial/clarification	Date	13/04/2000

Originator: Stephane Paltani, ISDC, Stephane.Paltani@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: Introduction of Data structure section + p. 227 + other pages

Problem Description: There are far too many -INT data structures. It does not give any information about the content, contrarily to the principles of ISDC. For instance, "JMXi-SHAD-INT" should be named "JMXi-EVTS-SHD" (I may be wrong for the "EVTS" part, but that's not the point). The concept of "-INT" data structures is peculiar. In my view, these data structures should be deleted when the next executable terminates (or at the end of the analysis script); otherwise they are not more "INT" than, say, the "SRW" data structures. All data structures should be defined at ISDC, even the "INT" one.

Recommended Solution: Give sensible names to the "-INT" data structures, or remove them...

Author's Response: CAO: It seems likely that the only -INT structure in my executables will disappear soon, if the two energy correction executables are merged. SM: The -INT data structures are based on very early plan. Those -INT datastructures are planned to use only in interactive analysis applications. The idea was to save same intermediate data between full interactive analysis and the final results are not in -INT data structures. All those structures are in V3 components and I think they will be under huge metamorphose after we have decided how to use these interactive GUIs. I will check if there is some inconcistency in V2 components. Change JMXi-SHAD-INT to JMXi-EVTS-SHD is

Responding Author: C.A. Oxborrow and S. Maisala, J. Huovelin

Review Decision: Accepted: all -INT data structures will be under configuration control and have well-defined templates like other data structures. GUI interfaces, however are still to be designed

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	38
Inconsistency	Date	13/04/2000

Originator: Stephane Paltani, ISDC, Stephane.Paltani@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: pp. 220, 221, 228 (maybe others as well)

Problem Description: Index tables MUST be named "????-????-IDX"

Recommended Solution: Change the names of the index tables that have wrong names

Author's Response: There must be some confusion in those templates. I think they are the very early versions. Example JMXi-SIND-DBG, JMXi-SIND-IBG do not exist anymore. I will recheck all names. I will send all these data structures to you when I have done that and you can make comments and proposals concerning names etc.

Responding Author: S. Maisala, J. Huovelin

Review Decision: Accepted: index table names will be changed to ****-****-IDX

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Danish Space Research Institute Juliane Maries Vej 30 DK-2100 Copenhagen	JEM-X ADD RID

Review Item Discrepancy	RID no	39
Editorial/clarification	Date	13/04/2000

Originator: Stephane Paltani, ISDC, Stephane.Paltani@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: pp 227-228

Problem Description: Some DS names do not fit very well in the ISDC scheme

Recommended Solution: Explicitly write that the names of these data structures are still open.

Author's Response: A note indicating that these are preliminary working names, unapproved by ISDC as yet, will be added to the text

Responding Author: C.A. Oxborrow

Review Decision: Accepted: note will be added to the text

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy		RID no	40
Editorial/clarification, Feasibility,Alternative approach		Date	13/04/2000

Originator: Soren Brandt, DSRI, sb@dsri.dk

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: j-known-src-calib, p 140

Problem Description: It appears that the j-known-src-calib takes corrected data as its starting point. (in general the known-source calibration section appears to be rather vaguely defined)

Recommended Solution: If you want to derive/verify the starting point should at least also include the raw/uncorrected data. The purpose is to derive the correction from raw to corrected data, not a correction to a correction.

Author's Response: Yes I can see the problem. Those data structures have to be RAW/uncorrected data. This component is still under development (It is V3 component). There is a quite lot of problems in this component what should be resolved.

Responding Author: S. Maisala, J. Huovelin

Review Decision: OPEN: this component needs a lot more work

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy		RID no	41
Feasibility		Date	13/04/2000

Originator: Soren Brandt, DSRI, sb@dsri.dk

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: j-ksc-spat-gain-corr, p 143

Problem Description: It is unclear that a well-defined peak can be found in the spectrum of a source.

Recommended Solution: If procedure is feasible, it must be more sophisticated than just finding the channel with the highest number of counts.

Author's Response: The main idea in the component j-known-src-calib is that we really have a well known source and there really is a peak in the spectrum. It is planned to use gaussian fitting to resolve the center of the peak but it is possible to try other methods like polynomial fitting. This is mentioned in component j-ksc-gain-values.

Responding Author: S. Maisala, J. Huovelin

Review Decision: OPEN: the design of this component needs more work

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	42
Editorial/clarification,Missing requirement	Date	13/04/2000

Originator: Soren Brandt, DSRI, sb@dsri.dk

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: j-prp-dead-time, p 43, p195

Problem Description: The hw trigger counter in HK is not used in dead-time estimation. The grey filter in fact behaves like a (artificial) dead time. Grey filter is not mentioned here. the JMXi-DEAD-STA structure it is unclear what the time scale of dead time correction is. As the actual science tm is not mentioned as input this routine is limited to treating dead time on scales larger than 8 sec. If an X-ray and gamma ray burst occurs it is needed to know the deadtime on a finer scale. Has the presence of a strong pulsar been considered?

Recommended Solution: Update with hw-trigger info. Describe relation to grey filter. Specify the time resolution (use TIMEDEL keyword or a column if the time scale for variations is variable).

Author's Response: This description does indeed need to be fleshed out: at the moment, the answers to all the above questions are unknown. Further work will be done on this component, and a fuller description, including, though not limited to, the points above will be provided.

Responding Author: C.A. Oxborrow

Review Decision: Accepted: a fuller description of j-prp-dead-time will be provided

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	43
Editorial/clarification, Alternative approach	Date	13/04/2000

Originator: Soren Brandt, DSRI, sb@dsri.dk

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: j-cor-evt-evaluate, p.68, p.181

Problem Description: It appears that most of the functionality of event evaluation should be done when the events are processed in the first place by other routines. Also and overlap with GTI determination. Example: how is it possible to check the validity of an individual position/energy? The column name of the quality flags EVT_EVAL should be standard FITS.

Recommended Solution: Put all functionality up-front where possible. Clarify what this routine needs to do. Use STATUS for the quality flag column (see OGIP/94-003).

Author's Response: It was felt that event evaluation should be done as the final step of the event correction process since much about the quality of each event might depend on the extent to which a given event must be corrected. For example, where position determination is poor (at GEM segment boundaries for example) a flag should be raised to indicate this. There may be many different circumstances in-flight (or even pre-flight) that lead to certain areas of the detector giving worse position or energy information than the rest of the detector, and events detected in these places must be flagged as having poor position/energy/time determination compared to other events. This is clearly not the same as GTI determination.

Author's Response: Continued: There are good reasons to perform event evalution at the same time as the event corrections. However a final executable at the end of the event corrections allows us to evaluate the reliablity of event data in ways not connected with a specific correction. The component description will be updated to include these points and to expand the description of the ways in which event evaluation might be done. EVT_EVAL will be changed to STATUS if this is in keeping with ISDC usage.
Responding Author: C.A. Oxborrow
Review Decision: Accepted: component description to be expanded. EVT_EVAL to be changed to STATUS if ISDC agrees

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy		RID no	44
Editorial/clarification		Date	14/04/2000
Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch			
Document Title: Instrument Specific Software for JEM-X: Architectural Design Document			
Document Reference Number: SDAST/ADD			
Document Revision Number: 5.0			
Problem Location: p. 175ff, Data Dictionary			
Problem Description: There is no overview of the JEM-X data structures in the same way as the overview of executables (Fig. 2.1, p. 11). Such an overview would probably be helpful for developers, ISDC integration and future users.			
Recommended Solution: Add one or several figures depicting the JEM-X related data structures and how they are tied together in groups.			
Author's Response: A figure will be made as an overview of JEM-X data structures, however, this will be done only once the name changes required by other RIDs have been completed.			
Responding Author: C.A. Oxborrow			
Review Decision: Accepted: new figure will be added to ADD			

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	45
Inconsistency	Date	14/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: Distributed over many pages in document

Problem Description: The overview at the beginning of the ADD alludes to named analysis levels, e.g., "PRP", "COR", "IMAG". The drawings depicting the design of individual components later in the document make no use of this information. While in some cases numerical identifiers are used (e.g., "SWG2") and not further explained, other cases omit all such identification.

Recommended Solution: Include appropriate identifcation of the the level of input and output data in *all* drawings and descriptions of higher level components in the ADD.

Author's Response: At the moment we have no idea what bearing any of these levels will have on the components, nor what they will be used for. This seems to be an internal ISDC matter. We have labelled our overview according to the levels agreed with ISDC, but beyond that it's unclear what the information means, hence it has been brought no further than the overview diagram. Until we know what the levels will be used for there is no more information to add. Each application can include the words 'This component belongs to ISDC level *******' but that's really all that's shown by the figure. As for assigning levels to each data structure I think we'll wait until we see how far ISDC goes with this one before labelling all our data structures - this ISDCLVL idea is very new, untested, and possibly volatile. There are several questions to be answered first: how do SWG1 and SWG2 etc. relate to levels? Are the SWG1 and SWG2 designations obsolete? If not, why not? Etc. etc.

Responding Author: C.A. Oxborrow

Review Decision:

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

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JEM-X ADD RID

Review Item Discrepancy	RID no	46
Alternative approach	Date	18/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 47, **j-calib-gain-fitting** and drawing on p. 45

Problem Description: (1) The description of this tool partially mentions use of Science Window Groups and partially alludes to Index Files. Only the second is correct as the calibration data and gain history is *not* part of the SWG and the Index Groups could span the whole mission! (2) The processing description assumes that the tool selects the FRSS data requiring processing on its own. It is not clear on how this would work. No parameter is mentioned that would control this.

Recommended Solution: Remove any reference to Science Window Groups. Simplify the interface of this executable, by just working on a single set of FRSS spectra and creating a single `JMXi-GAIN-CAL` structure at a time, leaving the Index admistration to the script (supplied by IDSC).

Author's Response: If this is the way ISDC wants things done, that's fine. The suggested changes will be made.

Responding Author: C.A. Oxborrow

Review Decision: Accepted: changes to j-calib-gain-fitting will be made

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Review Item Discrepancy	RID no	47
Alternative approach	Date	18/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p. 45+, **j-calib-auto**

Problem Description: The description of the pipeline assumes that **j-calib-adc-cor** will be called once for each run of **j-calib-gain-fitting**. This seems unnecessary, as the ADC corrections surely evolve slower than than the gain history.

Recommended Solution: Remove **j-calib-adc-cor** from this pipeline and move it to Interactive Calibration Analysis with the operational task to launch it every time new ADC correction information is available.

Author's Response: Why Interactive Calibration Analysis? There's nothing interactive about this. It is and should be completely automatic. Would it simply be easier to remove this executable and work directly from -MOD files that contain effective float values of telemetry binning limits as opposed to the current MOD extensions that contain the nominal binning limits which are integers. These -MOD extensions could be provided anew by the Instrument Team whenever new ADC corrections are deemed necessary, instead of them providing correction files. In either case the IT has to provide one file for each different binning configuration: in the expected ideal-ADC case the binning limits will be integer values, though stored as floats.

Responding Author: C.A. Oxborrow

Review Decision: still to be written

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

Danish Space Research Institute
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JEM-X ADD RID

Review Item Discrepancy	RID no	48
Inconsistency	Date	18/04/2000

Originator: Peter Kretschmar, ISDC, peter.kretschmar@obs.unige.ch

Document Title: Instrument Specific Software for JEM-X: Architectural Design Document

Document Reference Number: SDAST/ADD

Document Revision Number: 5.0

Problem Location: p.47f, **j-calib-adc-cor**

Problem Description: The parameter list and processing description refer to use of Science Window Groups. This is incorrect, as the data addressed is *not* part of the SWG.

Recommended Solution: Remove all allusions to SWG. Use direct DOLs to address data.

Author's Response: These corrections will be made IF the component is kept in the ISSW. See previous RID.

Responding Author: C.A. Oxborrow

Review Decision: This field will be written by the review panel

This form is based on template 3-E4 in ESA PSS-05-0 issue 2

1.1 Summary of RIDS

1 C.A. Oxborrow on Sami Maisala .... Accepted
2 Tim Lock on C.A. Oxborrow and P. Kretschmar .... Accepted
3 Tim Lock on C.A. Oxborrow .... Closed
4 Tim Lock on C.A. Oxborrow .... Accepted
5 Tim Lock on C.A. Oxborrow and P. Kretschmar .... Accepted
6 Tim Lock on S. Maisala .... OPEN
7 P. Kretschmar on C.A. Oxborrow .... Accepted
8 P. Kretschmar on C.A. Oxborrow .... Accepted
9 P. Kretschmar on C.A. Oxborrow .... Accepted
10 P.Kretschmar on C.A. Oxborrow .... Accepted
11 P. Kretschmar on C.A. Oxborrow .... Accepted
12 P. Kretschmar on S. Maisala, J. Huovelin .... Accepted
13 P. Kretschmar on P. Kretschmar .... Accepted
14 P.Kretschmar on C.A. Oxborrow .... Accepted
15 P. Kretschmar on P. Kretschmar .... Accepted
16 p. Kretschmar on N.J. Westergaard .... Accepted
17 P. Kretschmar on N.J. Westergaard .... Accepted
18 P. Kretschmar on N.J. Westergaard .... Accepted
19 P. Kretschmar on N.J. Westergaard .... Accepted
20 P. Kretschmar on N.J. Westergaard .... Accepted
21 P. Kretschmar on N.J. Westergaard .... Accepted
22 P. Kretschmar on S. Maisala, J. Huovelin .... Accepted
23 P. Kretschmar on S. Maisala, J. Huovelin .... Accepted
24 R. Rohlfs on S. Maisala, J. Huovelin .... OPEN
25 R. Rohlfs on S. Maisala, J. Huovelin .... OPEN
26 P. Kretschmar on N.J. Westergaard .... Accepted
27 P. Kretschmar on N.J. Westergaard .... OPEN
28 P. Kretschmar on S. Larsson .... OPEN
29 P. Kretschmar on S. Larsson .... Accepted
30 P. Kretschmar on S. Larsson .... Accepted
31 P. Kretschmar on S. Larsson .... Accepted
32 S. Paltani on C.A. Oxborrow .... OPEN
33 S. Paltani on C.A. Oxborrow .... Accepted
34 S. Paltani on N.J. Westergaard .... Rejected
35 S. Paltani on S. Maisala, J. Huovelin .... Accepted
36 S. Paltani on N.J. Westergaard .... Accepted
37 S. Paltani on C.A. Oxborrow and S. Maisala, J. Huovelin .... Accepted
38 S. Paltani on S. Maisala, J. Huovelin .... Accepted
39 S. Paltani on C.A. Oxborrow (all) .... Accepted
40 S. Brandt on S. Maisala, J. Huovelin .... OPEN
41 S. Brandt on S. Maisala, J. Huovelin .... OPEN
42 S. Brandt on C.A. Oxborrow .... Accepted
43 S. Brandt on C.A. Oxborrow .... Accepted
44 P. Kretschmar on C.A. Oxborrow .... Accepted
45 P. Kretschmar on C.A. Oxborrow .... Rejected

46 P. Kretschmar on C.A. Oxborrow . . . . Accepted
47 P. Kretschmar on C.A. Oxborrow . . . . OPEN
48 P. Kretschmar on C.A. Oxborrow . . . . OPEN