Logistics Coherence Information Architecture (LCIA) Model

Joint Configuration Change Management Process

Abstract:

This document defines the procedure for managing changes to the LCIA Model

Documentation Control Information

Document Reference tbc
Date: 01 Jun 07
Issue 1.1

Approvals

<table>
<thead>
<tr>
<th>Author:</th>
<th>Joe Garstin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edited By:</td>
<td></td>
</tr>
<tr>
<td>Authorised By:</td>
<td></td>
</tr>
</tbody>
</table>
Amendment Record

<table>
<thead>
<tr>
<th>Version No</th>
<th>Date</th>
<th>By Whom</th>
<th>Pages Altered/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>7 Nov 06</td>
<td>J Garstin</td>
<td>Initial issue for internal D Log Info review.</td>
</tr>
<tr>
<td>0.2</td>
<td>22 Nov 06</td>
<td>J Garstin</td>
<td>Issued to UKCeB for review</td>
</tr>
<tr>
<td>0.3</td>
<td>11 Dec 06</td>
<td>J Garstin</td>
<td>UKCeB amendments + additional editing</td>
</tr>
<tr>
<td>1.0</td>
<td>30 Jan 07</td>
<td>J Garstin</td>
<td>Minor presentation changes</td>
</tr>
<tr>
<td>1.1</td>
<td>01 Jun 07</td>
<td>J Garstin</td>
<td>Reflects MoD org changes &amp; LCIA v3.0 experience</td>
</tr>
</tbody>
</table>

Document Distribution

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronically published on LCIA website</td>
<td></td>
</tr>
</tbody>
</table>
Contents:

Introduction 1
LCIA Change Requests 1
JCCT 1
Joint Development Team 2
Requirement Development 2
Approval & Tasking 2
Sustainment Team 2
Quality Assurance 2
Release & Custody of New LCIA Versions 3
LCIA Publication & Distribution 3
LCIA Model – Lessons Learned from Use of the LCIA 3

Annexes:

Change Requests (CR) Template Annex A
Change Management Process – Summary Diagram Annex B
JCCT – TORs Annex C
LCIA Modification Tasking Note Annex D
QA Plan Template Annex E
QA Plan – Example scenarios Annex E, Appendix 1
QA Plan – Example Review Log Annex E, Appendix 2
Sustainment Team – TORs Annex F
Version Numbering Annex G
Example Release Certificate Annex H
LCIA MODEL CONFIGURATION AND CHANGE PROCESS

INTRODUCTION

1. The Coherence Project defined, jointly with Industry, the rules, tools and standards which will enable the MoD and Industry to accelerate the transformation of the end-to-end logistic information capability. The Project developed a jointly agreed Logistic Coherence Information Architecture Functional Business Process Model (known as the LCIA) with the supporting standards mapped to the information exchanges.

2. The Project produced an initial high level framework that will enable the acceleration of the development of logistics IS; however, it was recognised that further development work would be required if the desired benefits were to be accrued. Changes to the LCIA Model may be proposed for a variety of reasons, including feedback from IPT’s and Industry, who identify potential improvements / need for change during the course of exploitation. However, when contemplating changes, it is essential that work to amend the LCIA Model is only carried out under configuration control procedures.

3. The purpose of this document is to define the procedure for managing changes to the Logistics Coherence Information Architecture (LCIA) Model Master and managing distribution.

LCIA CHANGE REQUESTS

4. The only method for carrying out modification to the LCIA Model shall be in accordance with this procedure. Whenever it is determined that some aspect of the LCIA Functional Model requires change, then a Change Request (CR) is to be submitted to the LCIA Joint Configuration Control Team (JCCT) at the address below:

   LCIA JCCT Front Door
   c/o AD Defence Logistic Information
   Spur 6, E Block
   Ensleigh, Bath BA1 5AB
   Tel: 01225 472242
   E-mail: dloinfo-lciaoffice@mod.uk

5. The format for Change Requests is shown at Annex A and the Change Management process is summarised in the diagram at Annex B.

JCCT

6. The JCCT consists of one MoD member provided by D Def Log Info and one Industry-provided member nominated via the UKCeB. Additional subject matter expert (SME) members may be seconded to the JCCT as required. TORS for the JCCT are at Annex C.

7. On receipt of a new CR the JCCT will register it and conduct an impact analysis and initial scrutiny to ensure that the request is well founded and does not run counter to policy or other initiatives. If a CR is particularly complex it may be immediately referred to the Joint Development Team (JDT) for advice. The JCCT is to inform the originator whether the CR has been accepted for further staffing or provide reasons for rejection. CRs will be allocated a unique serial number which will be communicated to the originator of the request. A register will be established track all change requests.
JOINT DEVELOPMENT TEAM

8. The JDT is a team comprising Industry and MOD subject matter experts, called upon as required (virtual team), available to provide advice, specialist activity, oversight and coherency/consistency relating to the further development of the LCIA Model. JDT involvement will include activities such as extending the scope of the model, re-designing functions and alignment with developing standards.

REQUIREMENT DEVELOPMENT

9. The JCCT will work with the originator to clarify, define and develop the CR into a full requirement which then goes forward for development. This may be iterative and the depth of involvement depends on the complexity of the proposed amendment. The requirement will then be base-lined. In the event of contentious issues, guidance is to be sought from the LITP SG. When a decision is made not to proceed with a CR, the JCCT is to inform the originator of the reasons.

10. Following base-lining the JCCT in conjunction with the JDT, where appropriate, will draft a tasking note for the proposed change in the format at Annex D. The tasking note will be used to specify the requirement, identify the resources required to achieve the modification and to gain LITP SG approval when funding is required. The JCCT will also develop a Quality Assurance (QA) Plan to include the method and arrangements for validation and acceptance of the developed modification to the LCIA Model. The QA Plan is to cover the headings identified in the draft template shown at Annex E. Examples of scenarios which may be used for testing purposes and a Review Log are shown at Appendices 1 & 2 to Annex D.

APPROVAL AND TASKING

11. Once the tasking note has been approved, the JCCT will authorise the specified changes to be carried out.

12. The JCCT will arrange for the Sustainment Team in conjunction with the JDT, where necessary, to complete the changes. The work might be just a change to existing model structure or require some development of the model philosophy.

SUSTAINMENT TEAM

13. The Sustainment Team comprises a MooD Administrator and a Developer provided by AD Def Log Info\(^1\). The Sustainment Team is responsible for the day-to-day management activities associated with the MooD Repository and for incorporating any changes. The TORs for the Sustainment Team are at Annex F.

QUALITY ASSURANCE

14. The Sustainment Team carry out designated changes in accordance with the requirement/technical specification provided by the JCCT. Once modelling work is complete, the product is to be validated in accordance with the arrangements stated in the QA Plan.

RELEASE AND CUSTODY OF NEW LCIA VERSIONS

15. When QA has been completed the modifications are to be base-lined against the technical specification and signed off for release. The new version of the LCIA Model is to be allocated an identifying version number in accordance with the numbering convention described at Annex G. Authority for signing LCIA Model Release Certificates is vested in

\(^1\) The MooD Administrator may be in-house or out-sourced.
the chair of the LITP SG and release decisions are to be recorded in the minutes of the meeting. The release certificate is to follow the pattern shown at Annex H.

16. Once a new version of the LCIA Model has been formally released a Master copy is to be retained by the JCCT, as Custodian, and the previous version of the LCIA Model archived. The LCIA Master copy is currently maintained in MooD 2006.

**LCIA PUBLICATION AND DISTRIBUTION**

17. Once the publishable version has received QA approval from the JCCT, The LCIA Front Door administrator will arrange to publish the new version on the internet and DII at the following locations:

   a. Internet: [http://www.modinfomodel.co.uk/Start/Default.htm](http://www.modinfomodel.co.uk/Start/Default.htm)

   b. Mod websites: The LCIA DII team profile intranet site and the LCIA entry on the www.mod.uk website will both link to the UKCeB site listed above.

18. Additional CD-ROM copies of the LCIA Model will be distributed by the LCIA Front Door administrator on request, to eligible customers. Customer details, along with details of the LCIA Master version with which they have been issued, will be taken and recorded in the Customer Register which is to be maintained.

**LESSONS LEARNED FROM USE OF THE LCIA**

19. Whilst using the LCIA Model customer IPTs will be encouraged to use the expertise in D Def Log Info’s organisation and, therefore, opportunities for development of the LCIA are likely to present themselves informally through this mechanism. However, if the LCIA is to evolve it is essential that, once it has been applied, users return their specific processes model (based on a tailored version of the LCIA Model) to the JCCT, via AD Def Log Info for review. The purpose of this procedure is twofold: it will ensure that the LCIA Master can be revised and developed in the light of customer experience; and it will ensure that AD Def Log Info’s organisation can make fully informed recommendations to the IAB on information solutions being proposed.

20. Once a specific process model has been reviewed, the JCCT will document their findings, which will be briefed back to the user. The briefing will include recommendations for improvement, if appropriate. It will then be up to the customer whether or not those recommendations should be adopted as part of their ongoing transformation plans. The JCCT will decide which, if any, changes will be formally adopted by the LCIA under the configuration change process.

21. In a similar vein, Industry partners will be invited to return their process models (based on a tailored version of the LCIA Model) so that any changes to the extant Master version can be evaluated with a view to formally updating the LCIA Master under configuration control procedures.
ANNEX A

LCIA CHANGE REQUEST TEMPLATE

<table>
<thead>
<tr>
<th>Change Request No:</th>
</tr>
</thead>
</table>

**PART 1 PROPOSAL** *(Completed by Originator)*

<table>
<thead>
<tr>
<th>ORIGINATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Originator’s Name:</td>
</tr>
<tr>
<td>Organisation Name:</td>
</tr>
<tr>
<td>Address:</td>
</tr>
<tr>
<td>Phone No:</td>
</tr>
<tr>
<td>E-mail:</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Description of the requested change:

Justification for Change:

Outline of any proposed solution:

Alternative solutions available:

**SUGGESTED TARGET COMPLETION**

Target Completion Date:
ANNEX C

LCIA JCCT TORs

1. The Configuration and Change Team will be responsible for actioning all CRs for change to the LCIA deliverables and will undertake the following activities:

   a. Review all CRs against the extant version of the LCIA, ensuring that any decisions do not adversely impact the integrity of the data set. The Joint Development Team will be available to provide additional expertise as required.

   b. Provide feedback to the originators and providing reasons if the CR is rejected.

   c. Maintain the change register and provide status reports to the Steering Group.

   g. Review and endorse the Change & Release programme.

   d. Develop the requirement from the CR and the QA Plan, seeking JDT assistance as necessary.

   e. Direct the Sustainment team to implement changes including directions on forward communications.

   f. Performing QA in accordance with the QA Plan.
EXAMPLE FORMAT FOR LCIA MODIFICATION TASKING NOTE

PROPOSED LCIA WORKSTREAM

Review Supply Chain

**Requirement**
Following completion of work to address the outstanding issues from LCIA Release Certificate v2.0, a requirement has been identified to review the structure and content of Supply Chain.

**Issues**
The following issues have been identified which require resolution:

- Current model is MoD-centric and does not reflect industry practice
- Some key supply chain functions are missing.

**Stakeholders**
DE&S IPT’s; their Industry Partners and their IS providers

**Opportunity**
To update the LCIA model to increase its utility to IPTs and Industry partners to more accurately reflect their Supply Chain activities and information flow needs.

**Recommendation for LITP SG and JIG Consideration**
The LITP Steering Group and the JIG are invited to endorse the activities and resources set out in the Statement of Work below.

**Statement of Work:**

- Update the LCIA model to include reflection of industry practice.
- Identify and include missing Supply Chain functions.
- Identify and include additional definitions as required.
- Address inconsistency in modelling style between Supply Chain & E&AM.
- Address v3.0 Beta review comments relating to Supply Chain: see Annex A.

**Resources**

- Team co-ord (10 man-days) – D Def Log Info.
- Business SME (2 x 5 man-days) – Industry nominees.
- Business SME (2 x 5 man-days) – MoD nominees.
- MoD Modeller (10 man-days).
- Additional SMEs – as required.

**Methodology**

- The Workstream is to maintain a log to document why changes were made to the model and the impact of any changes. (ie to capture the team’s thought process). This will be retained as a permanent record to inform future development and use of the model.

**Deliverables**

- Updated LCIA Supply Chain module together with any updates required to maintain alignment with other functions within the model

**Timescales**

- Duration = 3 Months.

**Dependencies**

None
ANNEX E

LCIA – TEMPLATE FOR QA PLAN: Insert Change Request Title / No

1. Introduction. The following paragraphs detail the arrangements for QA to be carried out each time modifications are made to the LCIA Model. QA requirements must be satisfied before a change to the LCIA is authorised for release.

2. Modification Methodology. The Workstream charged to carry out a modification is to maintain a log to document why changes were made to the model and the impact of any changes (ie to capture the team’s thought process). This will be retained as a permanent record to inform future development and use of the model.

3. Acceptance Criteria. Acceptance criteria are required for each of the Requirements identified in the Requirements document raised following a Change Request (CR). This section should list the Requirements and state the acceptance criteria for each one, eg:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirement 1:</td>
<td>All changes or additions to LCIA functionality shall be intellectually robust. Changes or additions to functionality shall be tested by subject matter experts (SME) using scenario based evaluations.</td>
</tr>
<tr>
<td>Requirement 2:</td>
<td>The impact of changes to model functionality on other linked or related functions in the model shall be intellectually robust. The impact of changes on other linked or related functions in the model shall be tested by SME using scenario based evaluations.</td>
</tr>
<tr>
<td>Requirement 3:</td>
<td>Changes to functionality shall be displayed in a logical and legible manner. All new presentation layers and links shall be reviewed for legibility and ease of operation during the scenario based evaluations.</td>
</tr>
</tbody>
</table>

4. Testing. Testing plans and cases should be produced during design based on requirements and design specifications and a range of testing methods may be developed. Specific tests plans for a particular modification should be included here. See Appendix 1 for examples of scenarios. Additional testing scenarios may be developed, as required.

5. Audit. Testing procedures should be auditable with results, faults and fixes recorded and traceable. Testing procedures should be included here together with any results, faults and fixes which should be included in a separate Audit appendix. See Appendix 2 for example of a Review Log containing comments, faults & fixes.

6. Quality Responsibilities. This section states who will be responsible for monitoring and ensuring differing aspects of quality, which may include but not be limited to:

   a. Documentation quality. [Name / Appointment / Organisation ]
   b. Software testing. [Name / Appointment / Organisation ]
c. Configuration management. [Name / Appointment / Organisation ]

d. Functional quality. [Name / Appointment / Organisation]

7. Standards. This section should cover as applicable: coding standards, languages, interoperability standards, open source standards, etc [Only complete if applicable]

8. Quality Control and Audit Process. The quality control process can be viewed as a high level testing strategy. The audit process is the ability to trace back the test / checks that have been performed as part of quality control. This a useful for tracing software faults and may be required as part of the projects acceptance criteria to allow either an internal or external evaluator to review the rigour to which the software was constructed.
LCIA MODEL TESTING: SCENARIO 1

1. A joint response is required to an emerging security issue in a foreign operating theatre:

   a. During the planning phase for this operation it has been identified that a new air munitions system is required on Typhoon. The store is available ‘COTS’, however, it requires to be integrated with the collaborative weapon system. Trials will be required before clearance for operations is granted. The aim is to deploy six assets with the appropriate changes implemented and their munitions.

   b. HMS Chatham, completing an assisted maintenance period alongside in HMNB Devonport is earmarked for deployment. She requires to be fitted with codified Military Task Equipment (MTE) for surveillance and Force Defence purposes. The surveillance MTE will be fitted in Devonport prior to deployment. The Force Defence MTE will be embarked and fitted during a short stop over in Toulon, where she will also embark a small training team.

   c. Land Command decides that the Challenger platform that is being taken into the operational theatre will require their manufacturers’ engineering intervention in order for it to be declared battle worthy. Timeframes dictate that this activity must be carried out in Theatre. For expedience purposes the Challenger Mod kits will be required to be moved direct from manufacturing bases from a number of suppliers direct to the appropriate Point of Embarkation. In addition manufacture representatives will be present in the Joint Operating Area under Contractors on Deployed Operations (CONDO) rules to implement the Challenger modifications. They will be in direct communication with their companies back in the UK. The Mod kits required are the Joint Force Commanders highest logistic priority.

LCIA MODEL TESTING: SCENARIO 2

1. Funding pressures and delays to new equipment programmes have necessitated IPTs to review the through-life cost of extending current fleets and equipments beyond envisaged Out of Service Dates (OSDs).

2. There is an ageing fleet of Land-Rovers that were designed, procured and subjected to CLS that are now being used in a theatre of ops that they were not originally designed for. The Land-Rovers have been subsequently modified and enhanced with additional equipment, which takes it out of specification, contractual agreement and health and safety parameters. Therefore, there needs to be robust flows of information to provide clear direction to make sound engineering and supply decisions on continued safe use of equipment.

3. Having reviewed the Whole Life Costs (WLC), an Air Tactical Transport Fleet IPT has identified 2 over-riding issues. To extend the OSD certain lifed items will need to have their life extended with associated impact on Design Authority (DA) approval and possible changes to maintenance concept and maintenance periodicity. The second issue is that the extended OSD will mean that obsolescent items will become obsolete unless urgent action is taken. The fleet is currently maintained by a mix of organic and CLS.

4. Due to a delay in the implementation of Electronic Charting it has been decided that Astute Submarines 1, 2 and 3 will be fitted with legacy navigation and plotting systems (SNAPS). The WLC and information requirements of this decision need to be identified and understood. In particular, analysis of defects and data derived from equipment planned/unplanned maintenance will be required.
5. Does the model provide the ability to derive the information exchange requirements to make sound decisions when managing the associated activities for supporting and implementing decisions associated with ageing fleets and equipments?

**LCIA MODEL TESTING: SCENARIO 3**

1. A new equipment to be used by all three Services is being introduced into Service. It has been designed and manufactured by a major OEM using DEFSTAN 00-60 and Integrated Logistic Support. Support for the equipment is envisaged as a mixed economy of organic and CLS.

2. Examine the issues associated with transferring from design and production to in-service. In particular the information requirement for tasks such as initial provisioning, inventory planning, configuration management and documentation.

**LCIA MODEL TESTING: SCENARIO 4**

1. A deployment has taken place in response to a foreign crisis. Land, Maritime and Air Forces are operating in theatre some 3000 miles from the UK.

2. HMS Chatham requires a mid-deployment maintenance period in the host nation dockyard. She will undertake a mixture of planned maintenance and operational defect repair. Associated stores will be required, as will some UK based Royal Navy maintainers.

3. Examine the model for the required information data flows.

4. During maintenance, two drive shafts from two Warrior engines were found defective and required returning to the UK for repair.

5. Examine the information flow required to prime the repair loop and activate the reverse Supply Chain.

6. Joint Helicopter Command is operating a mixed fleet of helicopters from a common Deployed Operating Base (DOB), with a number of helicopter assets operating from Forward Operating Bases (FOBs). Part of this helicopter fleet is operated via UK based CLS that includes availability-based performance criteria.

7. Assuming that an aircraft is unserviceable; does the model allow the FOB/DOB to generate an available aircraft? In walking through the scenario analyse the forward and reverse Supply Chain for the operation of both FOBS and DOBS, and their re-supply through to the UK, including fuel and ammunition.
## LCIA v *.0 Beta – Review Log

Register as at (date):

<table>
<thead>
<tr>
<th>Ser No</th>
<th>Reviewer</th>
<th>Area</th>
<th>Comment / Issue</th>
<th>Response / Action taken to resolve Issue</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Katy Jarvill</td>
<td>Information Services</td>
<td>Where appropriate please include any identifiers eg 10.1.2 Some of the boxes do not show the full list of allocated functions and I could not work out how to see the list. (The read only version on website)</td>
<td>Resolution of principle required as to the need to retain COI. It is necessary then a page resign is required because the COI lists are too long to fit on a page. Done</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Discussion / policy required: new work stream to review post v3.0?</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Katy Jarvill</td>
<td>Defence Community of Interest</td>
<td>Not all the boxes have a tag: Initial Design should be C.1 and Sustain Design becomes C.2: ‘Commercial Policy and Procure’ and ‘Commercial Policy and Procurement’</td>
<td>Numbering added</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This is LCIA2.1 WP3 materiel and out of scope for this review however action is so minor it is complete.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Katy Jarvill</td>
<td>General</td>
<td>Many of the information flows are incomplete in terms of definitions/explanations and other information. Who is going to ensure these are completed and updated?</td>
<td>Finance team should complete definitions using spread sheet supplied by LCIA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This is a correct observation and relates only to BUSINESS SUPPORT functions. We omitted to ask the fin team for explanations. FIN TEAM ACTION</td>
<td></td>
</tr>
</tbody>
</table>
ANNEX F

JOINT SUSTAINMENT TEAM TORs

1. The Joint Sustainment Team will undertake the following activities:
   a. Maintain the LCIA Repository, including access and security requirements.
   c. Manage the accessibility of tools for the development of the LCIA and repository.
   d. Implement changes as directed by the JCCT.
   e. Manage the distribution process.
ANNEX G

LCIA VERSION NUMBERING

1. Published versions of the LCIA Model will have a version number in the form n.m.p (eg 2.1.1).

2. The major version number (n) is changed when the changes from the previous version of the LCIA are substantial or add new functionality.

3. The minor version number (m) is changed when the changes to the Model are of limited scope, for example corrections.

4. The postscript version number (p) is changed when the changes to the previous version have no impact on the model, eg cosmetic.
<table>
<thead>
<tr>
<th>Logistics Coherence Information Architecture – Release Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Configuration Mark:</strong></td>
</tr>
<tr>
<td>LCIA Version 3.0 - 20070516</td>
</tr>
<tr>
<td><strong>Purpose of Release:</strong></td>
</tr>
<tr>
<td>To promulgate LCIA Version 3.0</td>
</tr>
<tr>
<td>This release contains an updated version of the Logistics Coherence Information Architecture (Version 3.0) plus the original LCP ‘Final Reports’ which are also contained within the Repository.</td>
</tr>
<tr>
<td><strong>Consists of:</strong></td>
</tr>
<tr>
<td>1. Logistics Coherence Information Architecture Version 3.0.</td>
</tr>
<tr>
<td>2. Configuration management documentation.</td>
</tr>
<tr>
<td>3. LCIA presentations and spreadsheets.</td>
</tr>
<tr>
<td>4. Coherence Project archive.</td>
</tr>
<tr>
<td>The material is published at: <a href="http://www.modinfomodel.co.uk/Start/Default.htm">www.modinfomodel.co.uk/Start/Default.htm</a>. Copies of the full V3.0 MooD Repository may be obtained on request from: <a href="mailto:dloinfo-lciaoffice@mod.uk">dloinfo-lciaoffice@mod.uk</a></td>
</tr>
<tr>
<td><strong>Principal Changes from previous version:</strong></td>
</tr>
<tr>
<td>a. The functions of 03 Fleet and 04 Asset have been revised to comply with the Version 2 release note. A new function 3, Deliver Logistic Capability, brings coherence to the concept of managing fleets and managing assets within fleets.</td>
</tr>
<tr>
<td>b. A revision of Business Support that documents ‘purchasing’ functions in detail with supporting information flows. Other functions in Business Support have been elaborated sufficiently to identify high level and touchpoints to logistic functions in LCIA and to other business services.</td>
</tr>
<tr>
<td>c. Revision of information elements into a hierarchy that is more intuitive and which allows reports with information element summaries to be put on models. Summary information is shown in functional models in blue, flows at the information element level are shown in black and the models have been changed to make themes easier to read.</td>
</tr>
<tr>
<td>d. Aggregate (higher level) models are now self-updating, thus reducing the maintenance effort.</td>
</tr>
<tr>
<td>e. An integrated SOM mapping tool has been added to the MooD Developer functionality. This produces SOM information responsibilities in Excel directly from the model.</td>
</tr>
<tr>
<td>f. The addition of OAGIS constructs in the Standards Theme (TV1). This eases the way information elements may be mapped to information standards.</td>
</tr>
<tr>
<td>g. Addition of Change Management.</td>
</tr>
<tr>
<td>h. Enhanced navigation and help.</td>
</tr>
<tr>
<td><strong>Caveats:</strong></td>
</tr>
<tr>
<td>This release is issued with the following caveats:</td>
</tr>
<tr>
<td>• Review Supply Chain has been programmed for inclusion as an incremental addition to this release (late summer 07).</td>
</tr>
<tr>
<td>• Configuration Management was developed following feedback during the LCIA validation phase. It has drawn extensively from other MoD models. It is an initial issue for discussion and may require further review.</td>
</tr>
<tr>
<td>• The information element hierarchy remains a subject for study to recommend how groups of elements should be reported at higher levels.</td>
</tr>
<tr>
<td>• The Commercial function is incomplete and has only been developed to the point that high level touchpoints have been identified.</td>
</tr>
<tr>
<td>The foregoing does not represent a hold to this release. V3.0 post-release evaluation/rectification will be carried out, in the light of feedback, as part of the review process for the amended Supply Chain module.</td>
</tr>
</tbody>
</table>
**Example**

<table>
<thead>
<tr>
<th>Released by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joe Garstin</td>
</tr>
<tr>
<td>Change Authority</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Authorised by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wg Cdr R McTeague</td>
</tr>
<tr>
<td>LCIA Team Leader</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Endorsed by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITP SG dated 14 May 07</td>
</tr>
</tbody>
</table>