

# **AISEP Certificate Extension Program**



## **Certificate Extension Report**

**Tenix Defence Systems**

**Interactive Link Multiple Computer Switch  
Version 2.0**

**(FID004)**

<b>Version</b>	4.0
<b>Date</b>	August 2006

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# 1 Executive Summary

The Interactive Link Multiple Computer Switch (IL-MCS) is a product developed by Tenix Defence to allow for two different computers of different classifications to be controlled from the one mouse, keyboard and monitor without compromising the integrity of the data on the higher classified network.

The IL-MCS Version 2.0 was evaluated in accordance with the rules of the Australasian Information Security Evaluation Program (AISEP). In March 2000, the Australasian Certification Authority (ACA) issued certificate number 2000/11 certifying that IL-MCS Version 2.0 had met the ITSEC Assurance Level E6.

This report describes the Australasian Certificate Extension (ACE) approved changes that have been made to the evaluated version of IL-MCS (Version 2.0), and lists the subsequent ACE approved versions of IL-MCS.

This report concludes that the following versions of IL-MCS have maintained the ITSEC E6 level of assurance.

- Version 2.0 Release 2.0.3 (Part number FID004)
- Version 3.0 Release 3.0.0 (Part number FID004)
- Version 3.1 Release 3.1.0 (Part number FID004)
- Version 3.1 Release 3.1.1 (Part number FID004)
- Version 3.1 Release 3.1.3 (Part Number FID004)
- Version 3.1 Release 3.1.5 (Part Number FID004)
- Version 1.0 Release 1.0.0 (Part number FID104)<sup>1</sup>
- Version 1.1 Release 1.1.0 (Part number FID104)<sup>1</sup>
- Version 1.1 Release 1.1.1 (Part number FID104)<sup>1</sup>
- Version 1.1 Release 1.1.3 (Part number FID104)<sup>1</sup>
- Version 1.1 Release 1.1.5 (Part number FID104)<sup>1</sup>
- VETO MCX Version 1.0 Release 1.0.0 (Part number FID204)
- Version 3.1 Release 3.1.6 (Part Number FID004)
- Version 1.1 Release 1.1.6 (Part number FID104)<sup>1</sup>
- VETO MCX Version 1.0 Release 1.0.1 (Part number FID204)
- Version 3.1 Release 3.1.7 (Part Number FID004)
- Version 1.1 Release 1.1.7 (Part number FID104)<sup>1</sup>
- VETO MCX Version 1.0 Release 1.0.2 (Part number FID204)

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<sup>1</sup> TEMPEST compatible variant.

## 2 Introduction

This report describes the AISEP Certificate Extension (ACE) approved changes that have been made to the Interactive Link Multiple Computer Switch (IL-MCS) FID004 Version 2.0, and lists the subsequent ACE approved versions of IL-MCS. The report is aimed at users of the certified IL-MCS product. Also outlined are relevant configuration and installation guidelines that should be followed in order for the certified product to remain in an approved configuration. It is assumed that the reader is familiar with the IL-MCS Version 2.0 Certification Report Issue 1.0, March 2000.

### 2.1 ACE Program

The ACE program is aimed at assuring that a certified product will continue to meet its Security Target (ST) as changes are made to the certified product or its environment. Such changes include the discovery of new vulnerabilities, changes in user requirements, the correction of flaws found in the certified product and updates to functionality. For each change that is outlined in this report, ACE deliverables have been required to demonstrate that the results established during the original evaluation remain valid.

### 2.2 ACE Approval

It is important to note that those versions of IL-MCS appearing as ACE approved in this report have not been evaluated. ACE approval signifies that the assurance gained from the initial evaluation has been maintained throughout the versions and releases identified in this report.

The versions of the IL-MCS, approved by the ACE Program can therefore be used with the same level of confidence in security as the original evaluated version. The listed versions can also be used in place of any previously evaluated version of the IL-MCS and are covered by the rights and privileges conferred by the original certification.

### 3 Identification

Table 3.1 below provides information about the certified Target of Evaluation (TOE).

	Details
<b>TOE</b>	Interactive Link Multiple Computer Switch (IL-MCS) Version 2.0
<b>Certificate Number</b>	2000/11
<b>Security Target</b>	Issue 3.0, 1 <sup>st</sup> March 2000
<b>Assurance Level</b>	ITSEC E6

Table 3.1 TOE Identification

### 4 Change Register

The changes shown in Table 4.1 below have been ACE approved.

	Part Number	Version	Release	Details
<b>Change 1</b>	FID004	2.0	2.0.3	Power supply change, documentation changes and aesthetic changes to the product casing.
<b>Change 2</b>	FID004	3.0	3.0.0	All references to 'Vision Abell' changed to 'Tenix Defence'.
<b>Change 3</b>	FID104	1.0	1.0.0	Case changes to allow for a TEMPEST Version of the product.
<b>Change 4</b>	FID004	3.1	3.1.0	A microcontroller used has been superseded and consequently replaced by a newer microcontroller.
	FID104	1.1	1.1.0	
<b>Change 5</b>	FID004	3.1	3.1.1	Corrections to documentation and standards used as well as using one logo throughout all packaging.
	FID104	1.1	1.1.1	
<b>Change 6</b>	FID004	3.1	3.1.3	Admin manuals updated to reflect the difference between the US and AUS devices, the difference being the power cord each was packaged with.
	FID104	1.1	1.1.3	

<b>Change 7</b>	FID104	1.1	1.1.5	All devices now shipped with USA/AU power cords.
	FID004	3.1	3.1.5	
	FID204	1.0	1.0.0	Addition of VETO MCX variant.
<b>Change 8</b>	FID004	3.1	3.1.6	Update of IL approved sources listing and configured items list.
	FID104	1.1	1.1.6	
	FID204	1.0	1.0.1	
<b>Change 9</b>	FID004	3.1	3.1.7	Corrections to datapack, use of functionally equivalent components, and change to some part numbers.
	FID104	1.1	1.1.7	
	FID204	1.0	1.0.2	

Table 4.1 Change Register

## 4.1 Change 1

### IL-MCS Version 2.0, Release 2.0.3 (FID004)

The changes included in this release were based on IL-MCS Version 2.0. There were no changes that have affected the functionality or security of the product. The changes that have been made are summarised below:

- Small aesthetical changes including changes to artwork and labels on the case.
- Addition of parts to the part number list that were previously not included, as well as minor changes to the parts list including typographical changes.
- Minor changes to guidance documentation including the fixing of typographical errors.
- The two pin plug pack has been replaced by a three pin power pack. The power supply is used to provide 5VDC to the IL-MCS.

## 4.2 Change 2

### IL-MCS Version 3.0 Release 3.0.0 (FID004)

The changes included in this release were based on IL-MCS Version 2.0 Release 2.0.3. The changes made do not affect the functionality and security of the IL-MCS and is as follows:

- All references to ‘Vision Abell Pty Ltd’ in all documents and all labels were changed from ‘Vision Abell Pty Ltd’ to ‘Tenix Defence’.

## 4.3 Change 3

### IL-MCS Version 1.0 Release 1.0.0 (FID004)

The changes included in this release were based on IL-MCS Version 3.0 Release 3.0.0. The changes were made to allow for a TEMPEST compatible variant of the IL-

MCS. This version of the IL-MCS does not in itself provide TEMPEST protection, it has been modified to allow for mounting into a TEMPEST protective enclosure. These changes do not affect the functionality and security of the IL-MCS and are listed as follows:

- The casing of the IL-MCS is left as Alodine Aluminium. The powder coating that is applied to the casing in other part number Releases is not applied to this Release.
- The label on the rear panel has been changed so as to allow for a larger hole to be made to allow for the video connectors to be earthed to the case better.
- The rubber feet have been replaced by blind tapped screw holes.
- Parts/Items List – New Part numbers and Item Lists have been generated to reflect this new part number Release.

#### 4.4 Change 4

##### **IL-MCS 3.1 Release 3.1.0 (FID004) and IL-MCS 1.1 Release 1.1.0 (FID104)**

The changes included in this release were based on IL-MCS Version 3.0 Release 3.0.0 and Version 1.0 Release 1.0.0 respectively. These changes do not affect the functionality and security of the IL-MCS and are listed as follows:

- The AT89C55 microcontroller used within the IL-MCS has been superseded by the AT89C55WD. The new microcontroller has been used in place of the superseded version.

#### 4.5 Change 5

##### **IL-MCS 3.1 Release 3.1.1 (FID004) and IL-MCS 1.1 Release 1.1.1 (FID104)**

The changes included in this release were based on IL-MCS Version 3.1 Release 3.1.0 and IL-MCS Version 1.1 Release 1.1.0 respectively. These changes do not affect the functionality and security of the IL-MCS and are listed as follows:

- Minor corrections and alterations to the IL-MCS manuals.
- Updates to document formats to meet documentation standards.
- Packaging labels modified to all show the one logo.

#### 4.6 Change 6

##### **IL-MCS 3.1 Release 3.1.3 (FID004) and IL-MCS 1.1 Release 1.1.3 (FID104)**

The changes included in this release were based on IL-MCS Version 3.1 Release 3.1.1. These changes do not affect the functionality and security of the IL-MCS and are listed as follows:



- The IL-MCS Administrator Guide has been updated to indicate that the difference between the AU and US variants is the power cord they are shipped with. That is, AU units contain AU power cords and US units contain US power cords.
- The IL-MCS Workstation Installation and User Guide has changes in part numbering and a new cover for the manual, with compliance notices added to this to reflect the above change.
- New compliance labels have been added to the rear decal of the IL-MCS, and some user documentation has been updated.

## 4.7 Change 7

### **IL-MCS 3.1 Release 3.1.5 (FID004)**

### **IL-MCS 1.1 Release 1.1.5 (FID104) and**

### **VETO MCX 1.0 Release 1.0.0 (FID204)**

The changes included in this release were based on IL-MCS Version 3.1 Release 3.1.2. These changes do not affect the functionality and security of the IL-MCS and are listed as follows:

- The MCS Shippable has been updated to say “USA/AU Shippable” unit, to reflect the inclusion of USA/AU power cords in every unit. All devices are now packaged in the same way, with no product variants existing for different countries.
- The introduction of the new product variant, part number FID204, VETO MCX v1.0.0. The VETO MCX is identical in form to the IL-MCS in every way except that it is branded differently, and security remains unchanged from the original IL-MCS v2.0 evaluation at ITSEC E6.

## 4.8 Change 8

### **IL-MCS 3.1 Release 3.1.6 (FID004)**

### **IL-MCS 1.1 Release 1.1.6 (FID104) and**

### **VETO MCX 1.0 Release 1.0.1 (FID204)**

The changes included in this release were based on IL-MCS Version 3.1 Release 3.1.5. These changes do not affect the functionality and security of the IL-MCS and are listed as follows:

- Changes to the use of functionally equivalent electronic components, the change to some part numbers and the deletion of parts that have become obsolete.
- Changes to documentation for the IL-MCS reflecting above changes.

## 4.9 Change 9

### **IL-MCS 3.1 Release 3.1.7 (FID004)**

### **IL-MCS 1.1 Release 1.1.7 (FID104) and**

### **VEETO MCX 1.0 Release 1.0.2 (FID204)**

The changes included in this release were based on IL-MCS Version 3.1 Release 3.1.6. These changes do not affect the functionality and security of the IL-MCS and are listed as follows:

- Two drawings have been amended to correct errors in detail.
- One alternative component has been identified to assist the procurement of parts in a timely fashion.
- A number of part have had number changes and one manufacturer has changed names.
- Changes to documentation for the IL-MCS reflecting above changes.

## 5 Configuration

This section is used to define the different configuration options available and also include information on how to identify each different version and release. The IL-MCS does not provide the options of different configurations.

### 5.1 TOE Identification

An inspection the rear panel of the unit can identify the part number, version, and release of that particular IL-MCS unit. The version, part number and release are listed in the “Model – Build No:” panel in the top left-hand corner of the rear panel. The part and version numbers are listed in the following format:

FIDPPP-V.V.R

Where PPP = Part Number,

V.V = Version Number, and

R = Release Number

Note: If there is no release number, then it is the initial release (release 0) for that version.

## 6 Conclusion

The Australasian Certification Authority has determined that the changes made to Interactive Link Multiple Computer Switch (IL-MCS) Version 2.0 and identified as ACE approved in this report have met the requirements for the ACE program.

These ACE approved versions of IL-MCS should only be used in accordance with all recommendations and guidelines as set out in this report and the IL-MCS Version 2.0 Certification Report.

## 7 Document History

<b>Version</b>	<b>Details</b>	<b>Date</b>
1.0	EPL Release	July 03
1.1	Change 6	March 04
2.0	VETO Variant	June 04
3.0	Part changes	December 05
4.0	Corrections and Part changes	August 06