



**AISP.6-IPTV Downloadable Security
Incubator (IDSI) Report and
Recommendation on the Construct &
Function of the Neutral Management
Organization (NMO)**

June 2010



ATIS is a technical planning and standards development organization that is committed to rapidly developing and promoting technical and operations standards for the communications and related information technologies industry worldwide using a pragmatic, flexible and open approach. Over 1,100 participants from more than 350 communications companies are active in ATIS' 22 industry committees, and its Incubator Solutions Program.

< <http://www.atis.org/> >

The AISP.6- IPTV Downloadable Security Incubator (IDS I) Report and Recommendation on the Construct & Function of the Neutral Management Organization (NMO) is an ATIS Work Plan developed for the ATIS Executive Committee.

This document is subject to change. This document is a product of the AISP.6-IDS I, and represents the consensus view of the AISP.6-IDS I members. However, nothing contained herein is attributable to any particular member of the AISP.6-IDS I.

Published by

Alliance for Telecommunications Industry Solutions

1200 G Street, NW, Suite 500

Washington, DC 20005

Copyright © 2010 by Alliance for Telecommunications Industry Solutions

All rights reserved.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher. For information contact ATIS at 202.628.6380. ATIS is online at

< http://www.atis.org >.

Printed in the United States of America.

**AISP.6-IDSI Report and Recommendation on the Construct & Function of the Neutral
Management Organization**

Table of Contents

EXECUTIVE SUMMARY	4
ORGANIZATION OVERVIEW.....	4
1 NMO CONSTRUCT AND STAKEHOLDERS.....	5
1.1 NMO STRUCTURE.....	5
1.1.1 <i>Recommended ATIS Roles</i>	5
1.2 RELATIONSHIP OF NMO TO CERTIFICATE AUTHORITIES.....	6
2 NMO OVERVIEW SECTION.....	7
2.1 NMO FUNCTION FOR PRODUCT TESTING & CERTIFICATION.....	7
2.1.1 <i>Certification Process for Qualified Secure Part (QSP)</i>	8
2.1.2 <i>Certification Process for Consumer Electronics</i>	10
2.2 NMO FUNCTION FOR PROCESS ADMINISTRATION, PRODUCT REVOCATION & FAULT ARBITRATION.....	15
2.2.1 <i>Intellectual Property for Copy Protection</i>	15
2.3 CERTIFICATE AUTHORITY.....	17
2.3.1 <i>Certificates</i>	17
2.3.2 <i>Provisioning Certificates in Devices and Servers</i>	18
2.3.3 <i>Obtaining Authorization from the NMO to Request Certificates</i>	19
2.3.4 <i>NMO Flow Chart for CA Management</i>	19
2.3.5 <i>Certificate Cost Structure</i>	20
2.4 REVOCATION LIST ADMINISTRATION.....	20
2.4.1 <i>Issue Description</i>	20
2.4.2 <i>NMO Criteria</i>	20
2.4.3 <i>Revocation Process Recommendations</i>	21
2.4.4 <i>Revocation List Administration Scenario</i>	21
2.4.5 <i>NMO Flow Diagram for the Revocation Process</i>	24
2.4.6 <i>NMO ~ Start-Up</i>	24
2.4.7 <i>NMO ~ Operational</i>	24
2.4.8 <i>Existing Industry Practices</i>	24
2.4.9 <i>Alternative Approaches</i>	24
2.5 FAULT ARBITRATION.....	25
2.5.1 <i>Issue Description</i>	25
2.5.2 <i>NMO Criteria</i>	25
2.5.3 <i>Existing Industry Practices</i>	25
2.5.4 <i>Alternative Approaches</i>	25
2.6 FAULT ARBITRATION SCENARIO.....	26
2.6.1 <i>NMO Flow Diagram for Fault Arbitration</i>	26
2.6.2 <i>Existing Industry Practices</i>	26
2.6.3 <i>Alternative Approaches</i>	26
3 RECOMMENDATIONS AND NEXT STEPS.....	26
APPENDIX A: ACRONYMS & ABBREVIATIONS.....	27
APPENDIX B: RELEVANT STANDARDS.....	29
APPENDIX C: AISP.6 -IDSI MEMBERSHIP	30

AISP.6-IDSi Report and Recommendation on the Construct & Function of the Neutral Management Organization

Executive Summary

The benefits of having an open, interoperable, IPTV (Internet Protocol television) Downloadable Security Solution (DSS) are numerous; however, there are critical business issues that need to be addressed in order to facilitate a timely technical solution for IPTV downloadable security. The AISP.6-IPTV Downloadable Security Incubator (IDSi) membership is proposing a solution to these issues by creating a Neutral Management Organization (NMO). This document identifies the NMO construct, determines the business framework for how the NMO would resolve each issue, provides options on how funding for the NMO would work, and explores alternative solutions (including doing nothing).

Organization Overview

The overview section of the document defines terms such as Founding Members and discusses the possible make-up of the NMO: existing entity, Limited Liability Corporation (LLC), or other alternatives.

In the business issue section, each business issue has a separate section: for the certification processes for the Qualified Secure Part (QSP); the certification process for Consume Electronic (CE) products; the Intellectual Property interface; the CE vendors contracts used to enforce robustness rules and trust authority; the certificate authority policies/contracts; the revocation list administration; and the fault arbitration process.

Each section will:

- Describe the issue;
- Determine how the NMO would resolve the issue;
- Include examples of how the NMO would function;
- Determine the makeup of cost for the NMO function for both startup and operations;
- Note how other industries handle the issue;
- List alternative solutions with the reasons for not choosing the alternative solution.