

Verification Report Level III

IPROX-CMS, Version 4.4.1904

Prepared by:

Name: David Shepherd
Phone: +31 (0) 646 380 965
e-mail: david.shepherd@nccgroup.trust
Web: www.nccgroup.trust





Level III Verification Test Report

- Software Owner: **InfoProjects BV**
- Name of Software: **IPROX-CMS, Version 4.4.1904**
- Escrow Agreement Number: **43020**
- Test Report Number: **AMS2019-00133**
- Date of Report: **18 March 2019**

Revision	Date	Reviewed By	Review Description
1.0	05 April 2019		Issue for Client Review



Authorised by:

Director of Escrow Solutions: **Daniel Liptrott**

Verification Consultant: **David Shepherd**

Notices:

This report is intended for use only by the parties to the agreement noted above. If you have received this report in error, please call the Verification Testing department on: +44 (0)161 209 5200.

This report may not be reproduced by any means in whole or in part without the approval of NCC Group plc.

This report should be stored with the Escrow agreement number noted above.

The details of the Deposited Software in this report are based solely upon information supplied by the depositing party and the Integrity Tests noted in this report have been carried out solely on the material deposited by the depositing party.

NCC Group plc gives no warranty and makes no representation in respect of the contents of this report.



Acknowledgements

NCC Group plc acknowledges the assistance provided by Wiebe Cnossen of InfoProjects BV, who through their excellent preparation and professionalism enabled the Level III Verification exercise to be carried out successfully.

Limits and Reservations

The software identified in this report was verified in the described hardware and software environment and that to the best of knowledge the information contained in this report is correct.



Report Contents

SECTION 1 - MANAGEMENT SUMMARY	5
1.1 Introduction	5
SECTION 2 - TECHNICAL SUMMARY	6
2.1 Introduction	6
2.2 Objective	7
2.3 Software Owner Information	7
2.4 Software Details	7
2.5 Level III Verification process	8
SECTION 3 - RESULTS	9
3.1 Summary	9
3.2 Project assumptions	9
3.3 Check of various components	10
3.3.1 Escrow Deposit Specification Form	10
3.3.2 Technical Documentation	10
3.3.3 User Documentation	11
APPENDIX A – DEFINITIONS AND ABBREVIATIONS	12



Section 1 - Management summary

This report is produced as a record of the Level III Verification of **IPROX-CMS, Version 4.4.1904**, a high-level overview of which is summarised within the following subsections.

1.1 Introduction

The aim of the Level III Verification exercise was to carry out checks to prove that the **IPROX-CMS, Version 4.4.1904** software could be successfully built from the source code and associated files being placed into Escrow under agreement number **43020**.

The Level III Verification was carried out on **IPROX-CMS, Version 4.4.1904** at the NCC Group plc offices in Amsterdam with the assistance of Software Owner Representative Wiebe Cossen.

On completion of the Level III Verification exercise, the Escrow deposit containing the source code and associated files for **IPROX-CMS, Version 4.4.1904** were lodged in the NCC Group plc Secure Deposit Facilities.

Any questions arising from the content of this report should be forwarded to:

Testing Solutions
NCC Group plc
Van Heuven Goedhartlaan 13
1181 LE, Amstelveen
The Netherlands
e-mail: david.shepherd@nccgroup.trust



Section 2 - Technical Summary

2.1 Introduction

The purpose of the Level III Verification is to increase the probability that the source code deposited in Escrow can be used to create the software product licensed to the Client.

This test report is a record of each of the steps taken to complete this Level III Verification. All steps taken were completed successfully. The following is a summary of the main points of the Level III Verification exercise:

- The Level III Verification of **IPROX-CMS, Version 4.4.1904** was completed successfully with the source code and all associated files lodged in the form of one DVD-ROM and one duplicate DVD-ROM (for separate storage).
- The aim of the Level III Verification exercise was to carry out checks to prove that the **IPROX-CMS, Version 4.4.1904** software could be successfully built from the source code and associated files which were being placed into Escrow under agreement number **43020**.
- Several source files were examined to assess the clarity of the source code and verify that the source code contained features to aid the developer to understand its structure and functionality. Within selected source code files the variable, procedure and function nomenclature was found to be meaningful, and indentation was used to highlight logic flow control in all source files viewed.
- The **IPROX-CMS, Version 4.4.1904** software was successfully compiled.



2.2 Objective

Objective of this verification is to verify if the **IPROX-CMS, Version 4.4.1904** source code can be compiled.

2.3 Software Owner Information

Name:	InfoProjects BV
Address:	Brediusweg 25 1401 AB Bussum The Netherlands
Telephone:	+31 35 760 0300
Contact:	Wiebe Cnossen – Developer wiebe.cnossen@infoprojects.nl
Date of Verification:	February 2019
NCC Group Verification Consultant:	David Shepherd

2.4 Software Details

Name:	IPROX-CMS
Version:	4.4.1904



2.5 Level III Verification process

The Level III Verification process consists of the following phases:

- Communication with parties to establish main parameters (Kick Off).
- InfoProjects BV provides Escrow material.
 - NCC Group validates if Escrow material is sufficient to proceed with next phase:
 - No compiled components present in source code (source code is clean)
 - Compilation Instructions acceptable
 - Third party software described and available.
- Compilation of software by InfoProjects BV and NCC Group:
 - Start with clean hardware (nothing installed)
 - Installation of operating system
 - Installation of development environment and third party software
 - Environment parameters are set
 - Load of clean source code
 - Compilation of source code
 - Check of compilation logs for errors.
 - Issues arising from the compilation are resolved in cooperation with InfoProjects BV.
- Check of various components by NCC Group:
 - Quality assessment Escrow Deposit Specification Form
 - Check for presence of Technical Documentation
 - Check for presence of User Documentation.
- Verification report is created by NCC Group and provided to parties.



Section 3 - Results

3.1 Summary

In the Project Management Plan parties agreed that the objective of this Escrow verification was to verify if the **IPROX-CMS, Version 4.4.1904** source code can be compiled.

- During this verification all source code was compiled.
- Issues arising from the compilation were resolved in cooperation with InfoProjects BV.

3.2 Project assumptions

Assumption	Remarks
InfoProjects BV will provide Escrow material on CD-ROM/DVD.	Material was provided via Escrow Live.
Software necessary for phase “Compilation of software by supplier and NCC Group” is available from official installation media; as installation setups (with license keys) or can be downloaded from the Internet.	All software was available from official installation media; as installation setups or could be downloaded from the Internet
No network/database connection during phase “Compilation of software by the Software Owner and NCC Group” is required or allowed.	No network/database connection was used.
Version 4.4.1904 will be verified in this verification.	Version 4.4.1904 was verified.
Execution of phase “Compilation of software by Software Owner and NCC Group” will be a collaborative effort by InfoProjects BV and NCC Group whereby NCC Group will execute the work and InfoProjects BV will support efforts.	-
Phase “Compilation of software by InfoProjects BV and NCC Group” will be executed in Amsterdam.	Compilation was executed in Amsterdam.



3.3 Check of various components

3.3.1 Escrow Deposit Specification Form

InfoProjects BV is required to provide an (updated) Escrow Deposit Specification Form with each Escrow deposit provided to NCC Group (article 4.1 of the Escrow contract).

In the Escrow Deposit Specification Form InfoProjects BV is requested to answer a number of standard questions which are required for verification of the material.

As this document is often the only document provided with update deposits, it is vital to have a document of sufficient quality and consequently this document is always assessed by a technician of NCC Group during a Level III Verification.

Conclusion

Escrow Deposit Specification Form was provided by supplier and meets the Escrow quality requirements.

3.3.2 Technical Documentation

Should an Escrow release (article 5 of the Escrow contract) take place, Technical Documentation will assist Escrow beneficiaries to quickly understand the concepts and methods used by InfoProjects BV to create the software and consequently be able to continue with development of the software efficiently and effectively.

In the Project Management Plan parties agreed that the technical lead for this project would check for the presence of certain documentation.

Conclusion

Technical Documentation has been provided.



3.3.3 User Documentation

Under normal circumstances an Escrow beneficiary already has access to User Documentation.

However, for backup purposes it is advised to deposit a copy of the documentation into Escrow and as such parties agreed in the Project Management Plan that the technical lead for this project would check for the presence of certain documentation.

Conclusion

User Documentation has not been provided.



Appendix A – definitions and abbreviations

Definition or abbreviation	Description
Copy of runtime software	<p>A copy of the software used in the production environment – the software that the Escrow beneficiary is actually using.</p> <p>Method of delivery depends on how software supplier provides material to the clients. Examples:</p> <ul style="list-style-type: none"> • Installation CD/DVD + patches – NCC Group requests a copy of this material • Software is downloaded from Internet – NCC Group requests a copy of this material • Software is installed by supplier at users’ site – NCC Group visits a user to obtain material or another method is developed.
No compiled components present in source code (source code is clean)	<p>An example of a component is an encryption sub-module.</p> <p>Such sub-modules are often used in other modules (write once, use many times).</p> <p>When these other modules are compiled the sub-module is used in the compilation process. For reasons of efficiency however, such a sub-module is often used in its compiled format (object/library) during compilation and not as source code (in other words not recompiled).</p> <p>The issue for Escrow is – how do we know if supplier provided all source code of all its components if sub-modules are not recompiled during the Escrow compilation?</p> <p>To establish if software supplier did supply source code of all its compiled components NCC Group resorts to the following method:</p> <ol style="list-style-type: none"> 1. When source code from a software supplier is received, all compiled components are removed 2. During the compilation process third party components are installed on the system by using official installation media, or by downloading them from the Internet (to establish without any doubts that this material is 100% third party) 3. All software supplier components are recompiled 4. Compilation of the main software package starts. <p>Should compilation of the main software package fail because a compiled component was not present the following mitigation process will be executed:</p> <ul style="list-style-type: none"> • Problem due to the fact that supplier did not supply source code of a component: <ul style="list-style-type: none"> ○ request source code from supplier ○ recompile component ○ continue or restart compilation of main software package.



	<ul style="list-style-type: none"> • Problem due to the fact that supplier did not document all third party components: <ul style="list-style-type: none"> ○ request or download third party software ○ install third party software on verification system ○ continue or restart compilation of main software package.
Third Party Software	Any software which has not been created by software supplier.
Escrow Material	<p>Material parties agreed upon to provide into Escrow – examples:</p> <ul style="list-style-type: none"> • Source code • Technical Documentation • User Documentation • Compilation Instructions • Escrow Deposit Specification Form.
Development Environment	<p>Software needed to develop and compile the software.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Microsoft .Net • Gnu C • Sun JDK.
Escrow Deposit Specification Form	<p>A document which software supplier must provide with each Escrow deposit. It contains standard questions, such as:</p> <ul style="list-style-type: none"> • Which version is provided • Which media are provided • Description of development environment used.
Compilation Instructions	<p>Compilation Instructions should contain at least the following items:</p> <ul style="list-style-type: none"> • Instructions how to install development environment on a clean system • Instructions how to load source code • Instructions how to set environment parameters • Instructions how to compile software.



About NCC Group

NCC Group is a leading global information assurance firm, providing freedom from doubt that all critical material is available, protected, and operating as it should be at all times. Information assurance is delivered through escrow and verification, security testing, audit and compliance, website performance and software testing services.

Our Services

Escrow & Verification

NCC Group's escrow and verification services protect all parties involved in the development, supply and use of business critical software. With over 30 years' experience we are the world's largest software escrow provider, protecting over 15,000 clients worldwide. Our clients benefit from our ability to offer our services under a variety of international laws and the assurance that comes from our global network of secure storage vaults across the UK, North America and Europe. Our in-house legal and technical teams guarantee an independent and quality service.

Security Testing, Audit & Compliance

NCC Group's security testing, audit and compliance services help mitigate the risk of malicious attacks and data loss, and ensure the compliance of your processes with legal requirements. We deliver a highly respected, systematic and strategic approach, drawing on unparalleled experience and scale. With the UK's largest penetration testing team and top-level accreditations from bodies ranging from the government's NCSC (National Cyber Security Centre) scheme to the PCI Security Standards Council, we are the trusted advisor to over 1,750 clients worldwide.

Website Performance & Software Testing

NCC Group's website performance and software testing services assure the quality of your software, the integrity of your infrastructure and the performance of your websites. We provide independent business analysis, software testing, web performance and load testing services to over 550 clients worldwide. Our services are completely independent, so we don't rely upon, or recommend, the use of any one testing tool or process.

