NCC Group Software Resilience Level III Verification Test Report

IPROX CMS
Version 4.7.2306

Level III Verification Test Report

- Software Owner: **InfoProjects B.V.**
- Name of Software: **IPROX CMS, Version 4.7.2306**
- Agreement Number: **43020**
- Test Report Number: **L3-2023-00387**
- Verification Consultant: **Mark Keenan**

Revision	Date	Reviewer	Description
0.1	14th February 2023		Draft for Internal Review
0.2	16th February 2023	BN	Internal Review
1.0	21st February 2023		Issued for External Review

Notices

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The details of the software in this report are based solely upon information supplied by the depositing party and the Deposit Checking noted in this report have been carried out solely on the material deposited by the depositing party.

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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

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

1.1 Introduction

The aim of the exercise was to carry out checks to prove that the software could be successfully built or deployed from the source code and that the source code and associated files were being placed into the NCC Group Secure Environment under agreement number **43020**.

The software was seen to be compiled from source code and all stages were noted and detailed in this report. On completion of the exercise, the verified deposit was lodged in the NCC Group Secure Environment.
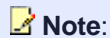
> **Note**:
>
> This report is distributed as **Issued – DRAFT** for comments from all parties. If no comments are received within **14 days** of the issue date, the report status will automatically become **Issued – FINAL**.

Section 2 - Scope of Verification and Technical Summary

2.1 Objective

- Objective of this verification is to verify that the source code can be compiled.

2.2 Level III Verification Process

The Level III Verification process consists of the following phases:

- Communication with parties to establish main parameters (Kick Off).

- Software Owner provides source code deposit and associated files.
  - o NCC Group validates if this is sufficient to proceed with next phase:
  - o No compiled components present in source code (source code is clean)
  - o Compilation Instructions acceptable
  - o Third party software described and available.

- Compilation of software by Software Owner and NCC Group:
  - o Start with clean hardware (nothing installed)
  - o Installation of operating system
  - o Installation of development environment and third party software
  - o Environment parameters are set
  - o Load of clean source code
  - o Compilation of source code
  - o Check of compilation logs for errors.
  - o Issues arising from the compilation are resolved in cooperation with the Software Owner

- Check of various components by NCC Group:
  - o Quality assessment Deposit Specification Form
  - o Check for presence of Technical Documentation
  - o Check for presence of User Documentation.

- Verification report is created by NCC Group and provided to parties.

2.3　Software Owner Information

Name:　　　　　　　　　　　　　　　InfoProjects B.V.

Technical Representative Information:

Name	Email
Ad van Pinxteren	ad.van.pinxteren@infoprojects.nl
Sander van der Meulen	sander.van.der.meulen@infoprojects.nl

2.4　Verification Information

NCC Group Verification Consultant:　　　Mark Keenan
mark.keenan@nccgroup.com

Location:　　　　　　　　　　　　　　NCC Group plc

XYZ Building
2 Hardman Boulevard
Spinningfields
Manchester
M3 3AQ
United Kingdom

Date of Verification:　　　　　　　　14th -15th February 2023

Section 3 - Software Information

This section presents information relating to the exercise, including the scope of the exercise and details of the materials that form the verified deposit.

3.1 Catalogue of Materials Deposited

The following is a full list of the materials deposited for the verified software:

- The source code and associated files for **IPROX CMS, Version 4.7.2306**

- A copy of this test report.

3.2 Contents of the Verified Deposit

The below table details the contents of the verified deposit:

Filename	Description
iprox-escrow-deposit-43020-2023.zip	Contained the source code
build_postbuild.zip	Contained the binaries created during the exercise

As a result of the verification, the material listed above is now deposited under agreement number **43020** and marked as having completed an exercise. The verified material will remain lodged in the NCC Group Secure Environment, in addition to subsequent updated deposits, until a later deposit is also verified.

Section 4 - Results

4.1 Summary

In the Project Management Plan parties agreed that the objective of this verification exercise was to verify if the source code can be compiled.

- During this verification all source code was compiled.

- Issues arising from the compilation were resolved in cooperation with the Software Owner

4.2 Project assumptions

Assumption	Remarks
The Software Owner will provide source code and associated files.	Material was provided electronically.
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 **4.7.2306** will be verified in this verification.	Version **4.7.2306** was verified.
Execution of phase "Compilation of software by the Software Owner and NCC Group" will be a collaborative effort by the Software Owner and NCC Group whereby NCC Group will execute the work and the Software Owner will support efforts.	-
Phase "Compilation of software by the Software Owner and NCC Group" will be executed in the United Kingdom.	Compilation was executed in the United Kingdom

4.3　Check of Requisite Components

4.3.1　Deposit Specification Form

The Software Owner is required to provide an (updated) verified Deposit Specification form with each deposit provided to NCC Group (**Article 4.1** of the contract).

In the Deposit Specification form, the Software Owner 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

Deposit Specification form was provided by supplier and meets the Software Resilience quality requirements.

4.3.2　Technical Documentation

Should a release event (**Article 5** of the contract) take place, Technical documentation will assist Software Resilience beneficiaries to quickly understand the concepts and methods used by the Software Owner 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.

4.3.3　User Documentation

Under normal circumstances a Software Resilience beneficiary already has access to user documentation.

However, for backup purposes it is advised to deposit a copy of the documentation with the verified deposit 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

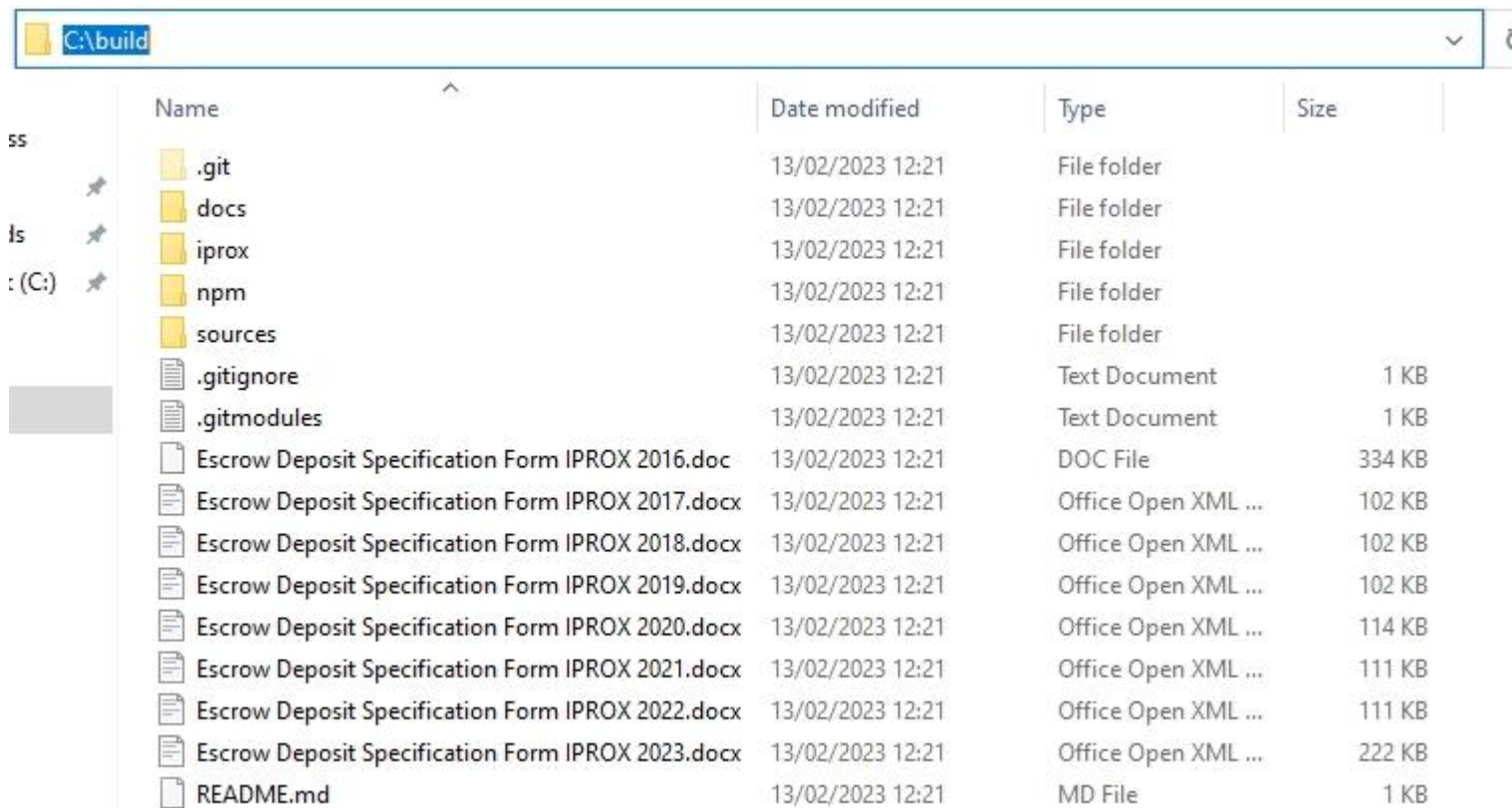User documentation has been provided.

Appendix A - Definitions/Abbreviations

Definition/Abbreviation	Description
Copy of runtime software	A copy of the software used in the production environment – the software that the Software Resilience beneficiary is actually using. Method of delivery depends on how software supplier provides material to the clients. Examples: • 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)	An example of a component is an encryption sub-module.
	
	Such sub-modules are often used in other modules (write once, use many times).
	
	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).
	
	The issue for Software Resilience services are – how do we know if supplier provided **all** source code of **all** its components if sub-modules are not recompiled during compilation?
	
	To establish if software supplier did supply source code of all its compiled components NCC Group resorts to the following method:
	
	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.
	
	Should compilation of the main software package fail because a compiled component was not present the following mitigation process will be executed:
	
	• Problem due to the fact that supplier did not supply source code of a component:
	    o request source code from supplier
	    o recompile component
	    o continue or restart compilation of main software package.

Definition/Abbreviation	Description

	• Problem due to the fact that supplier did not document all third party components:
	    o request or download third party software
	    o install third party software on verification system
	    o continue or restart compilation of main software package.

Third Party Software	Any software which has not been created by software supplier.
Escrow Material	Material parties agreed upon to provide into Escrow – examples: • Source code • Technical Documentation • User Documentation • Compilation Instructions • Deposit Specification Form.
Development Environment	Software needed to develop and compile the software. Examples: • **Microsoft .Net** • **Gnu C** • **Sun JDK**
Deposit Specification Form	A document which software supplier must provide with each deposit. It contains standard questions, such as: • Which version is provided; • Which media are provided; and • Description of development environment used.
Compilation Instructions	Compilation Instructions should contain at least the following items: • 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.

Appendix B - Screenshots

Compilation evidence:


```
The easiest way to install these is by typing
```
choco install -y nodejs-lts --version 16.13.2
choco install -y 7zip.install
choco install -y git.install
choco install -y nuget.commandline
choco install -y visualstudio2022buildtools
choco install -y yarn
```
```
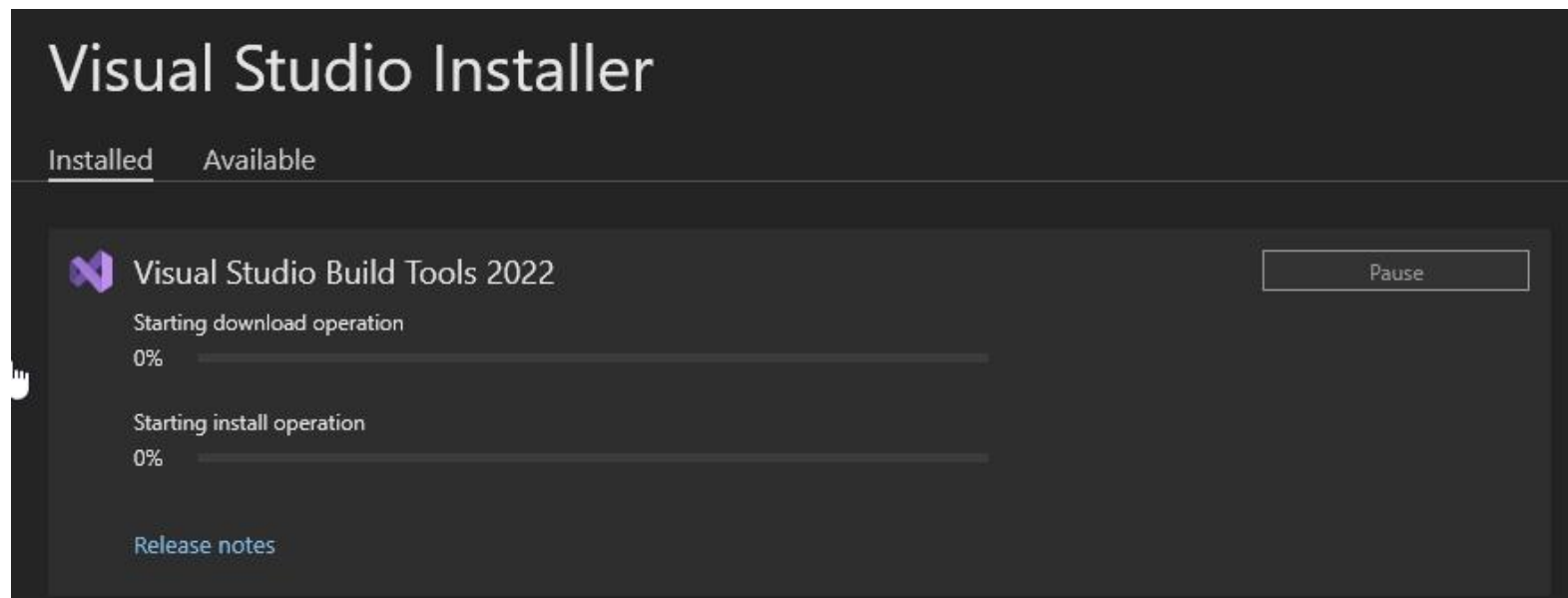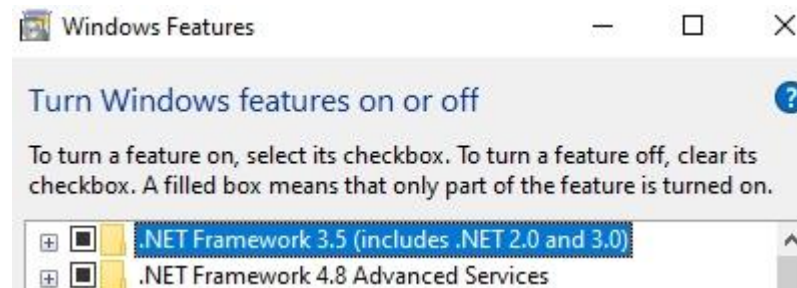
```json
{
  "version": "1.0",
  "components": [
    "Microsoft.VisualStudio.Component.Roslyn.Compiler",
    "Microsoft.Component.MSBuild",
    "Microsoft.VisualStudio.Component.CoreBuildTools",
    "Microsoft.VisualStudio.Workload.MSBuildTools",
    "Microsoft.VisualStudio.Component.TestTools.BuildTools",
    "Microsoft.Net.Component.4.8.SDK",
    "Microsoft.Net.Component.4.7.2.TargetingPack",
    "Microsoft.VisualStudio.Component.NuGet.BuildTools",
    "Microsoft.VisualStudio.Web.BuildTools.ComponentGroup",
```

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```
        "Microsoft.Net.ComponentGroup.DevelopmentPrerequisites",
        "Microsoft.VisualStudio.Component.TypeScript.TSServer",
        "Microsoft.Net.Component.4.8.TargetingPack",
        "Microsoft.Net.ComponentGroup.4.8.DeveloperTools",
        "Microsoft.NetCore.Component.Runtime.6.0",
        "Microsoft.NetCore.Component.Runtime.7.0",
        "Microsoft.NetCore.Component.SDK",
        "Microsoft.VisualStudio.Component.DockerTools.BuildTools",
        "Microsoft.Component.ClickOnce.MSBuild",
        "Microsoft.VisualStudio.Wcf.BuildTools.ComponentGroup",
        "Microsoft.VisualStudio.Component.WebDeploy",
        "Microsoft.Net.Component.3.5.DeveloperTools",
        "Microsoft.Net.Component.4.6.2.TargetingPack",
        "Microsoft.Net.Component.4.7.TargetingPack",
        "Microsoft.Net.Component.4.7.1.TargetingPack",
        "Microsoft.Net.ComponentGroup.4.6.2-4.7.1.DeveloperTools",
        "Microsoft.Net.Component.4.8.1.SDK",
        "Microsoft.Net.Component.4.8.1.TargetingPack",
        "Microsoft.Net.ComponentGroup.4.8.1.DeveloperTools",
        "microsoft.net.runtime.mono.tooling",
        "microsoft.net.sdk.emscripten.net7",
        "wasm.tools",
        "microsoft.net.runtime.mono.tooling.net6",
        "microsoft.net.sdk.emscripten.net6",
        "wasm.tools.net6",
        "Microsoft.VisualStudio.Component.TypeScript.SDK.4.8",
        "Microsoft.VisualStudio.Workload.WebBuildTools",
        "Microsoft.VisualStudio.Component.Node.Build",
        "Microsoft.VisualStudio.Workload.NodeBuildTools",
        "Microsoft.Net.Component.4.6.TargetingPack",
        "Microsoft.VisualStudio.Component.VSSDKBuildTools",
        "Microsoft.VisualStudio.ComponentGroup.VisualStudioExtensionBuildTools.Prerequisites",
        "Microsoft.VisualStudio.Workload.VisualStudioExtensionBuildTools",
        "Microsoft.VisualStudio.Component.NuGet",
        "Microsoft.VisualStudio.Component.Workflow.BuildTools",
        "Microsoft.VisualStudio.Component.Sharepoint.BuildTools",
        "Microsoft.VisualStudio.Component.TeamOffice.BuildTools",
        "Microsoft.Net.Component.4.7.2.SDK",
        "Microsoft.NetCore.Component.Runtime.5.0"
    ]
}
```

C:\Program Files (x86)\Yarn\bin\yarn.cmd - Notepad++ [Administrator]

File Edit Search View Encoding Language Settings Tools Macro Run Plugins

new 1   build.md   yarn.cmd

```
1   @echo off
2   node "C:\Program Files (x86)\Yarn\bin\yarn.js" %*
3
```

Search Results in build   *.pfx

Name	Date modified	Type	Size	Folder
InfoProjects.IPROX.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Iprox.Modules (C:\build\sources\iprox.modules\src\solution)
Iprox.Forms.Xml.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Iprox.Forms.Xml (C:\build\sources\iprox-forms\src\solution)
Iprox.Forms.Core.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Iprox.Forms.SigningEherkenning (C:\build\sources\iprox-forms\...
EHerkenning.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Iprox.Forms.Identification.Connectis (C:\build\sources\iprox-for...
EHerkenning.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Iprox.Forms.Identification.Core (C:\build\sources\iprox-forms\sr...
Iprox.Forms.Core.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Iprox.Forms.Gemnet (C:\build\sources\iprox-forms\src\solution)
Iprox.Forms.Core.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Iprox.Forms.Core (C:\build\sources\iprox-forms\src\solution)
InfoProjects.pfx	13/02/2023 12:21	Personal Informati...	2 KB	InfoProjects.Digid (C:\build\sources\iprox-forms\src\solution)
Iprox.Formula.pfx	13/02/2023 12:21	Personal Informati...	2 KB	Formula (C:\build\sources\iprox-forms\src\solution)

Install PFX

Open

The **build.ps1** script was executed several times, each correcting an error related to a specified **.pfx** file from within the supplied deposit as shown below and overleaf:


```
C:\Program Files\PowerShell\7\pwsh.exe

PowerShell 7.3.2
PS C:\Program Files\PowerShell\7> cd C:
PS C:\Program Files\PowerShell\7> cd C:\build\sources
PS C:\build\sources> .\build.ps1 > build.out
```



```
PS C:\build\sources\iprox-forms> set-alias sn 'C:\Program Files (x86)\Microsoft SDKs\Windows\v10.0A\bin\NETFX 4.8 Tools\
sn.exe'
```



```
PS C:\build\sources\iprox-forms> sn -i "C:\build\sources\iprox-forms\src\solution\InfoProjects.Digid\InfoProjects.pfx" V
S_KEY_F415E4BC28437648

Microsoft (R) .NET Framework Strong Name Utility  Version 4.0.30319.0
Copyright (c) Microsoft Corporation.  All rights reserved.

Enter the password for the PKCS#12 key file:
Key pair installed into 'VS_KEY_F415E4BC28437648'
PS C:\build\sources\iprox-forms> sn -i "C:\build\sources\iprox-forms\src\solution\Formula\Iprox.Formula.pfx" VS_KEY_235F
127A97F9878B

Microsoft (R) .NET Framework Strong Name Utility  Version 4.0.30319.0
Copyright (c) Microsoft Corporation.  All rights reserved.

Enter the password for the PKCS#12 key file:
Key pair installed into 'VS_KEY_235F127A97F9878B'
PS C:\build\sources\iprox-forms>
```



```
C:\Program Files\PowerShell\7\pwsh.exe

PowerShell 7.3.2
PS C:\Program Files\PowerShell\7> cd C:
PS C:\Program Files\PowerShell\7> cd C:\build\sources
PS C:\build\sources> .\build.ps1
```

```
    [exec]   InfoProjects.Digid -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\InfoProjects.Digid.dll
    [exec]   Formula -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\InfoProjects.Formula.dll
    [exec] C:\Program Files\Microsoft Visual Studio\2022\Enterprise\MSBuild\Current\Bin\Microsoft.Common.CurrentVersion.targe
ts(3476,5): error MSB3325: Cannot import the following key file: Iprox.Forms.Xml.pfx. The key file may be password protected.
To correct this, try to import the certificate again or manually install the certificate to the Strong Name CSP with the follo
wing key container name: VS_KEY_060908731FAC22F0 [C:\build\sources\iprox-forms\src\solution\Iprox.Forms.Xml\Iprox.Forms.Xml.cs
proj]
    [exec] C:\Program Files\Microsoft Visual Studio\2022\Enterprise\MSBuild\Current\Bin\Microsoft.Common.CurrentVersion.targe
ts(3476,5): error MSB3321: Importing key file "Iprox.Forms.Xml.pfx" was canceled. [C:\build\sources\iprox-forms\src\solution\I
prox.Forms.Xml\Iprox.Forms.Xml.csproj]
    [exec]   FormulaTest -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\IPROX.Formula.Test.dll
    [exec]   Iprox.BackOffice.Formula -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Iprox.BackOffice.Formula.d
ll
    [exec]   Efaas.Gbav -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Efaas.Gbav.dll
    [exec]   Efaas.Kvk -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Efaas.Kvk.dll
    [exec]   Efaas.Lvo -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Efaas.Lvo.dll

BUILD FAILED - 2 non-fatal error(s), 1 warning(s)

External Program Failed: powershell (return code was 1)

Total time: 93.2 seconds.

Exception: C:\build\sources\powershell\scripts\Invoke-Build.ps1:19
Line |
  19 |   if (!$ok) { throw "BUILD FAILED" }
     |              ~~~~~~~~~~~~~~~~~~~~~~~
     | BUILD FAILED
PS C:\build\sources\iprox-forms> sn -i "C:\build\sources\iprox-forms\src\solution\Iprox.Forms.Xml\Iprox.Forms.Xml.pfx" VS_KEY_
060908731FAC22F0

Microsoft (R) .NET Framework Strong Name Utility  Version 4.0.30319.0
Copyright (c) Microsoft Corporation.  All rights reserved.

Enter the password for the PKCS#12 key file:
Key pair installed into 'VS_KEY_060908731FAC22F0'
PS C:\build\sources\iprox-forms> _
```

nccgroup | SOFTWARE RESILIENCE

```
    [exec]   InfoProjects.Digid -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\InfoProjects.Digid.dll
    [exec]   Formula -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\InfoProjects.Formula.dll
    [exec]   Iprox.Forms.Xml -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Iprox.Forms.Xml.dll
    [exec] C:\Program Files\Microsoft Visual Studio\2022\Enterprise\MSBuild\Current\Bin\Microsoft.Common.CurrentVersion.targe
ts(3476,5): error MSB3325: Cannot import the following key file: EHerkenning.pfx. The key file may be password protected. To c
orrect this, try to import the certificate again or manually install the certificate to the Strong Name CSP with the following
 key container name: VS_KEY_2649DF911749D40F [C:\build\sources\iprox-forms\src\solution\Iprox.Forms.Identification.Core\Iprox.
Forms.Identification.Core.csproj]
    [exec] C:\Program Files\Microsoft Visual Studio\2022\Enterprise\MSBuild\Current\Bin\Microsoft.Common.CurrentVersion.targe
ts(3476,5): error MSB3321: Importing key file "EHerkenning.pfx" was canceled. [C:\build\sources\iprox-forms\src\solution\Iprox
.Forms.Identification.Core\Iprox.Forms.Identification.Core.csproj]
    [exec]   FormulaTest -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\IPROX.Formula.Test.dll
    [exec]   Iprox.BackOffice.Formula -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Iprox.BackOffice.Formula.d
ll
    [exec]   Efaas.Gbav -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Efaas.Gbav.dll
    [exec]   Efaas.Kvk -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Efaas.Kvk.dll
    [exec]   Efaas.Lvo -> C:\Users\nccescrow\AppData\Local\Temp\build\Efaas\bin.tmp\Efaas.Lvo.dll

BUILD FAILED - 2 non-fatal error(s), 1 warning(s)

External Program Failed: powershell (return code was 1)

Total time: 92.1 seconds.

Exception: C:\build\sources\powershell\scripts\Invoke-Build.ps1:19
Line |
  19 |   if (!$ok) { throw "BUILD FAILED" }
     |              ~~~~~~~~~~~~~~~~~~~~~~~~
     | BUILD FAILED
PS C:\build\sources\iprox-forms> sn -i "C:\build\sources\iprox-forms\src\solution\Iprox.Forms.Identification.Core\EHerkenning.
pfx" VS_KEY_2649DF911749D40F

Microsoft (R) .NET Framework Strong Name Utility  Version 4.0.30319.0
Copyright (c) Microsoft Corporation.  All rights reserved.

Enter the password for the PKCS#12 key file:
Key pair installed into 'VS_KEY_2649DF911749D40F'
PS C:\build\sources\iprox-forms>
```

```
BUILD FAILED - 2 non-fatal error(s), 1 warning(s)

External Program Failed: powershell (return code was 1)

Total time: 85.6 seconds.

Exception: C:\build\sources\powershell\scripts\Invoke-Build.ps1:19
Line |
  19 |   if (!$ok) { throw "BUILD FAILED" }
     |              ~~~~~~~~~~~~~~~~~~~~~~~~~
     | BUILD FAILED
PS C:\build\sources\iprox-forms> sn -i "C:\build\sources\iprox-forms\src\solution\Iprox.Forms.Core\Iprox.Forms.Core.pfx" VS_KE
Y_B79C6A1EE9580505

Microsoft (R) .NET Framework Strong Name Utility  Version 4.0.30319.0
Copyright (c) Microsoft Corporation.  All rights reserved.

Enter the password for the PKCS#12 key file:
Key pair installed into 'VS_KEY_B79C6A1EE9580505'
PS C:\build\sources\iprox-forms> cd ..
PS C:\build\sources> .\build.ps1
```

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```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\build\runtime>dir /s
 Volume in drive C has no label.
 Volume Serial Number is 7C16-E0E6

 Directory of C:\build\runtime

15/02/2023  00:41    <DIR>          .
15/02/2023  00:41    <DIR>          ..
15/02/2023  00:41    <DIR>          Forms-4.7.2302
15/02/2023  00:32    <DIR>          IPROX-CMS-4.7.2301
15/02/2023  00:34    <DIR>          Modules-4.7.2303
               0 File(s)              0 bytes

 Directory of C:\build\runtime\Forms-4.7.2302

15/02/2023  00:41    <DIR>          .
15/02/2023  00:41    <DIR>          ..
15/02/2023  00:40        25,578,211 Forms-4_7_2302-dem.zip
15/02/2023  00:39        23,884,855 Forms-4_7_2302-efaas.zip
15/02/2023  00:41        25,623,775 Forms-4_7_2302-hhd.zip
15/02/2023  00:40        24,968,628 Forms-4_7_2302-ksa.zip
15/02/2023  00:39        26,143,885 Forms-4_7_2302-lim.zip
15/02/2023  00:41        26,134,086 Forms-4_7_2302-pdr.zip
15/02/2023  00:39        41,157,305 Forms-4_7_2302-redactie.zip
15/02/2023  00:41        24,791,763 Forms-4_7_2302-rvs.zip
15/02/2023  00:41        24,209,321 Forms-4_7_2302-sgm.zip
15/02/2023  00:40        23,912,009 Forms-4_7_2302-vhm.zip
15/02/2023  00:40        25,025,215 Forms-4_7_2302-wve.zip
15/02/2023  00:39        24,636,192 Forms-4_7_2302-zzl.zip
              12 File(s)    316,065,245 bytes
```

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nccgroup | SOFTWARE RESILIENCE

C:\Windows\System32\cmd.exe

```
Directory of C:\build\runtime\IPROX-CMS-4.7.2301

15/02/2023  00:32    <DIR>          .
15/02/2023  00:32    <DIR>          ..
15/02/2023  00:31            14,521 InfoProjects.Authenticate.4.7.2301.nupkg
15/02/2023  00:31            10,642 InfoProjects.Bundle.4.7.2301.nupkg
15/02/2023  00:31           644,703 InfoProjects.Dxe.4.7.2301.nupkg
15/02/2023  00:31            45,208 InfoProjects.Dxe.Entities.4.7.2301.nupkg
15/02/2023  00:32           441,928 InfoProjects.Iprox.4.7.2301.nupkg
15/02/2023  00:31            19,340 InfoProjects.Iprox.Background.4.7.2301.nupkg
15/02/2023  00:32        10,577,510 InfoProjects.Iprox.Cms.4.7.2301.nupkg
15/02/2023  00:32         9,011,859 InfoProjects.Iprox.Com.4.7.2301.nupkg
15/02/2023  00:32            11,090 InfoProjects.Iprox.Import.4.7.2301.nupkg
15/02/2023  00:32             8,646 InfoProjects.Iprox.Import.Client.4.7.2301.nupkg
15/02/2023  00:32            14,008 InfoProjects.Iprox.Import.Dto.4.7.2301.nupkg
15/02/2023  00:32            13,586 InfoProjects.Iprox.Import.Server.4.7.2301.nupkg
15/02/2023  00:32           220,845 InfoProjects.Iprox.Model.4.7.2301.nupkg
15/02/2023  00:32         1,158,717 InfoProjects.Iprox.Model.Generator.4.7.2301.nupkg
15/02/2023  00:31           221,489 InfoProjects.Iprox.Security.4.7.2301.nupkg
15/02/2023  00:32         8,563,136 InfoProjects.Iprox.Site.4.7.2301.nupkg
15/02/2023  00:31            11,653 InfoProjects.Iprox.Upload.4.7.2301.nupkg
15/02/2023  00:31            34,901 InfoProjects.Social.4.7.2301.nupkg
15/02/2023  00:31            23,016 InfoProjects.Spatial.4.7.2301.nupkg
              19 File(s)     31,046,798 bytes
```

```
C:\Windows\System32\cmd.exe                                              —    □

 Directory of C:\build\runtime\Modules-4.7.2303

15/02/2023  00:34    <DIR>          .
15/02/2023  00:34    <DIR>          ..
15/02/2023  00:34         4,383,877 Modules-4_7_2303-IPROX-Modules-beheer_global.zip
15/02/2023  00:34             2,021 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_abcindex.zip
15/02/2023  00:34             3,608 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_applicatielink.zip
15/02/2023  00:34             1,985 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_artikel.zip
15/02/2023  00:34            93,015 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_beeldbank.zip
15/02/2023  00:34            21,824 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_begrippenlijst.zip
15/02/2023  00:34             5,667 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_bekendmakingen-gvop.zip
15/02/2023  00:34             1,635 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_catalogusindex.zip
15/02/2023  00:34            42,454 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_cvdr.zip
15/02/2023  00:34            51,714 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_discussie.zip
15/02/2023  00:34             4,920 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_dossier.zip
15/02/2023  00:34            28,618 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_download.zip
15/02/2023  00:34            41,378 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_downloaddossier.zip
15/02/2023  00:34            12,038 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_enquete.zip
15/02/2023  00:34            64,761 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_evenementenagenda.zip
15/02/2023  00:34             7,392 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_facetzoeker.zip
15/02/2023  00:34            17,384 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_faqindex.zip
15/02/2023  00:34            37,152 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_fotoalbum.zip
15/02/2023  00:34               453 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_imagemap.zip
15/02/2023  00:34             2,526 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_index.zip
15/02/2023  00:34            15,248 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_link.zip
15/02/2023  00:34             1,608 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_mailform.zip
15/02/2023  00:34           121,767 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_mailinglist.zip
15/02/2023  00:34           104,723 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_media.zip
15/02/2023  00:34               343 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_mijnstatus.zip
15/02/2023  00:34             5,474 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_nieuwsbrief.zip
15/02/2023  00:34            94,341 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_nieuwsservice.zip
15/02/2023  00:34            32,450 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_opiniepeiling.zip
15/02/2023  00:34            52,672 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_ppc.zip
15/02/2023  00:34             1,624 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_predef_zoeken.zip
15/02/2023  00:34            61,247 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_prikbord.zip
15/02/2023  00:34            41,845 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_productencatalogus.zip
15/02/2023  00:34            50,574 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_reserveringen.zip
15/02/2023  00:34            16,228 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_rssfeeds.zip
15/02/2023  00:34            69,931 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_sdg_product.zip
15/02/2023  00:34             7,581 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_sitemap.zip
15/02/2023  00:34         1,384,224 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_styleguide.zip
15/02/2023  00:34             4,268 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_tijdlijn.zip
15/02/2023  00:34            81,736 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_vergunningen_bekendmakingen.zip
15/02/2023  00:34           313,862 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_video.zip
15/02/2023  00:34            65,038 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_weblog.zip
15/02/2023  00:34            21,198 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_webpack.zip
15/02/2023  00:34            71,219 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_workshops.zip
15/02/2023  00:34            11,694 Modules-4_7_2303-IPROX-Modules-beheer_pagetype_zoeken.zip
15/02/2023  00:34             4,125 Modules-4_7_2303-IPROX-Modules-beheer_prototype_catalogusselectie.zip
15/02/2023  00:34            92,665 Modules-4_7_2303-IPROX-Modules-beheer_prototype_formulier.zip
15/02/2023  00:34            33,197 Modules-4_7_2303-IPROX-Modules-beheer_prototype_selectie.zip
15/02/2023  00:34            15,458 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_apis.zip
```

nccgroup | SOFTWARE RESILIENCE

C:\Windows\System32\cmd.exe

```
15/02/2023  00:34        15,458 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_apis.zip
15/02/2023  00:34       733,170 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_baseline.zip
15/02/2023  00:34        24,007 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_beeld.zip
15/02/2023  00:34       707,785 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_bootstrap.zip
15/02/2023  00:34         9,689 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_bundle.zip
15/02/2023  00:34        74,078 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_closedusergroups.zip
15/02/2023  00:34        67,681 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_entityfinder.zip
15/02/2023  00:34        63,359 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_feedback.zip
15/02/2023  00:34         1,437 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_ga4.zip
15/02/2023  00:34         4,362 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_googleanalytics.zip
15/02/2023  00:34         1,604 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_googletagmanager.zip
15/02/2023  00:34        15,527 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_gvop-index-updater.zip
15/02/2023  00:34        10,778 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_jaarverslag.zip
15/02/2023  00:34         1,864 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_letstat.zip
15/02/2023  00:34       113,982 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_mobile.zip
15/02/2023  00:34            22 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_operpublish.zip
15/02/2023  00:34         1,237 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_piwik.zip
15/02/2023  00:34         1,537 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_piwikprotagmanager.zip
15/02/2023  00:34       322,376 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_reacties.zip
15/02/2023  00:34         1,216 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_security_txt.zip
15/02/2023  00:34        18,330 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_siteimproveanalytics.zip
15/02/2023  00:34         5,429 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_sitestat.zip
15/02/2023  00:34       145,490 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_social.zip
15/02/2023  00:34       448,219 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_twittercarrousel.zip
15/02/2023  00:34         4,105 Modules-4_7_2303-IPROX-Modules-beheer_virtualtype_zoeken-cvdr-gvop.zip
15/02/2023  00:34     3,806,120 Modules-4_7_2303-IPROX-Modules-oper_global.zip
15/02/2023  00:34         2,021 Modules-4_7_2303-IPROX-Modules-oper_pagetype_abcindex.zip
15/02/2023  00:34         2,356 Modules-4_7_2303-IPROX-Modules-oper_pagetype_applicatielink.zip
15/02/2023  00:34         1,000 Modules-4_7_2303-IPROX-Modules-oper_pagetype_artikel.zip
15/02/2023  00:34        48,978 Modules-4_7_2303-IPROX-Modules-oper_pagetype_beeldbank.zip
15/02/2023  00:34        20,138 Modules-4_7_2303-IPROX-Modules-oper_pagetype_begrippenlijst.zip
15/02/2023  00:34         4,046 Modules-4_7_2303-IPROX-Modules-oper_pagetype_bekendmakingen-gvop.zip
15/02/2023  00:34         1,635 Modules-4_7_2303-IPROX-Modules-oper_pagetype_catalogusindex.zip
15/02/2023  00:34        28,374 Modules-4_7_2303-IPROX-Modules-oper_pagetype_cvdr.zip
15/02/2023  00:34        31,779 Modules-4_7_2303-IPROX-Modules-oper_pagetype_discussie.zip
15/02/2023  00:34         4,920 Modules-4_7_2303-IPROX-Modules-oper_pagetype_dossier.zip
15/02/2023  00:34        19,669 Modules-4_7_2303-IPROX-Modules-oper_pagetype_download.zip
15/02/2023  00:34        20,151 Modules-4_7_2303-IPROX-Modules-oper_pagetype_downloaddossier.zip
15/02/2023  00:34         1,495 Modules-4_7_2303-IPROX-Modules-oper_pagetype_enquete.zip
15/02/2023  00:34        61,297 Modules-4_7_2303-IPROX-Modules-oper_pagetype_evenementenagenda.zip
15/02/2023  00:34         7,392 Modules-4_7_2303-IPROX-Modules-oper_pagetype_facetzoeker.zip
15/02/2023  00:34        16,624 Modules-4_7_2303-IPROX-Modules-oper_pagetype_faqindex.zip
15/02/2023  00:34         8,769 Modules-4_7_2303-IPROX-Modules-oper_pagetype_fotoalbum.zip
15/02/2023  00:34           453 Modules-4_7_2303-IPROX-Modules-oper_pagetype_imagemap.zip
15/02/2023  00:34         2,526 Modules-4_7_2303-IPROX-Modules-oper_pagetype_index.zip
15/02/2023  00:34        13,865 Modules-4_7_2303-IPROX-Modules-oper_pagetype_link.zip
15/02/2023  00:34         1,350 Modules-4_7_2303-IPROX-Modules-oper_pagetype_mailform.zip
15/02/2023  00:34        72,550 Modules-4_7_2303-IPROX-Modules-oper_pagetype_mailinglist.zip
15/02/2023  00:34       101,746 Modules-4_7_2303-IPROX-Modules-oper_pagetype_media.zip
15/02/2023  00:34           343 Modules-4_7_2303-IPROX-Modules-oper_pagetype_mijnstatus.zip
15/02/2023  00:34         4,150 Modules-4_7_2303-IPROX-Modules-oper_pagetype_nieuwsbrief.zip
15/02/2023  00:34        29,899 Modules-4_7_2303-IPROX-Modules-oper_pagetype_nieuwsservice.zip
15/02/2023  00:34        18,682 Modules-4_7_2303-IPROX-Modules-oper_pagetype_opiniepeiling.zip
```

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C:\Windows\System32\cmd.exe                                                    —    □

15/02/2023  00:34          22,088 Modules-4_7_2303-IPROX-Modules-oper_pagetype_ppc.zip
15/02/2023  00:34           1,624 Modules-4_7_2303-IPROX-Modules-oper_pagetype_predef_zoeken.zip
15/02/2023  00:34          38,779 Modules-4_7_2303-IPROX-Modules-oper_pagetype_prikbord.zip
15/02/2023  00:34          27,414 Modules-4_7_2303-IPROX-Modules-oper_pagetype_productencatalogus.zip
15/02/2023  00:34          46,592 Modules-4_7_2303-IPROX-Modules-oper_pagetype_reserveringen.zip
15/02/2023  00:34          14,377 Modules-4_7_2303-IPROX-Modules-oper_pagetype_rssfeeds.zip
15/02/2023  00:34              22 Modules-4_7_2303-IPROX-Modules-oper_pagetype_sdg_product.zip
15/02/2023  00:34           5,955 Modules-4_7_2303-IPROX-Modules-oper_pagetype_sitemap.zip
15/02/2023  00:34       1,383,103 Modules-4_7_2303-IPROX-Modules-oper_pagetype_styleguide.zip
15/02/2023  00:34           2,577 Modules-4_7_2303-IPROX-Modules-oper_pagetype_tijdlijn.zip
15/02/2023  00:34          47,855 Modules-4_7_2303-IPROX-Modules-oper_pagetype_vergunningen_bekendmakingen.zip
15/02/2023  00:34         310,902 Modules-4_7_2303-IPROX-Modules-oper_pagetype_video.zip
15/02/2023  00:34          58,872 Modules-4_7_2303-IPROX-Modules-oper_pagetype_weblog.zip
15/02/2023  00:34          11,585 Modules-4_7_2303-IPROX-Modules-oper_pagetype_webpack.zip
15/02/2023  00:34          47,396 Modules-4_7_2303-IPROX-Modules-oper_pagetype_workshops.zip
15/02/2023  00:34           9,716 Modules-4_7_2303-IPROX-Modules-oper_pagetype_zoeken.zip
15/02/2023  00:34           4,125 Modules-4_7_2303-IPROX-Modules-oper_prototype_catalogusselectie.zip
15/02/2023  00:34          70,061 Modules-4_7_2303-IPROX-Modules-oper_prototype_formulier.zip
15/02/2023  00:34          29,137 Modules-4_7_2303-IPROX-Modules-oper_prototype_selectie.zip
15/02/2023  00:34          15,458 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_apis.zip
15/02/2023  00:34         572,555 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_baseline.zip
15/02/2023  00:34              22 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_beeld.zip
15/02/2023  00:34         707,785 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_bootstrap.zip
15/02/2023  00:34           8,449 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_bundle.zip
15/02/2023  00:34          38,567 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_closedusergroups.zip
15/02/2023  00:34              22 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_entityfinder.zip
15/02/2023  00:34          41,763 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_feedback.zip
15/02/2023  00:34           1,437 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_ga4.zip
15/02/2023  00:34           4,362 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_googleanalytics.zip
15/02/2023  00:34           1,604 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_googletagmanager.zip
15/02/2023  00:34          15,527 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_gvop-index-updater.zip
15/02/2023  00:34           9,180 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_jaarverslag.zip
15/02/2023  00:34           1,864 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_letstat.zip
15/02/2023  00:34          96,014 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_mobile.zip
15/02/2023  00:34          53,996 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_operpublish.zip
15/02/2023  00:34           1,237 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_piwik.zip
15/02/2023  00:34           1,537 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_piwikprotagmanager.zip
15/02/2023  00:34         270,887 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_reacties.zip
15/02/2023  00:34          11,648 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_security_txt.zip
15/02/2023  00:34           1,417 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_siteimproveanalytics.zip
15/02/2023  00:34           5,429 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_sitestat.zip
15/02/2023  00:34         119,976 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_social.zip
15/02/2023  00:34         446,932 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_twittercarrousel.zip
15/02/2023  00:34           4,105 Modules-4_7_2303-IPROX-Modules-oper_virtualtype_zoeken-cvdr-gvop.zip
15/02/2023  00:34           1,051 Modules-4_7_2303-IPROX-Modules-source_global.zip
15/02/2023  00:34           1,734 Modules-4_7_2303-IPROX-Modules-source_virtualtype_baseline.zip
15/02/2023  00:34         823,453 Modules-4_7_2303-IPROX-Modules-source_virtualtype_bootstrap.zip
             147 File(s)     20,100,565 bytes

     Total Files Listed:
             178 File(s)    367,212,608 bytes
              11 Dir(s)  49,973,334,016 bytes free
```

About Software Resilience

With over 30 years' experience, NCC Group is a world-leading Software Resilience provider ensuring the continued availability of outsourced business-critical software and data through our Escrow and Verification services.

Our Software Resilience services enable businesses to easily prepare for, respond to and recover from disruption to third-party services, strengthening operational resilience and satisfying business continuity planning, regulatory compliance and supply chain risk management requirements.

Over 14,000 businesses worldwide benefit from our ability to offer our Software Resilience services under a variety of international laws and the assurance that comes from our global network of both physical and virtual storage vaults. Our offering and global capabilities are backed up by our experience in-house legal and technical teams, guaranteeing an independent and quality service.

The principle behind our offering is clear – to protect all parties involved in the development, supply and use of business-critical software and data.

Adding further strength and expertise to our Software Resilience services, we're also global experts in cyber security and risk mitigation – protecting businesses against the ever-evolving threat landscape.

For more information please contact the team at **verification@nccgroup.com** or call **+44 (0) 161 209 5200**.