Horizon 2020 ETC 636126

**Interoperability Hub**

**–**

Deliverable D6.3

**06 May 2016**

# 1. Interoperability Hub

The deliverable is described in the Grant Agreement as part of work package 6: Define & Develop Authentication & Routing Hub & Token ID management. The development of the Travel Scheme Hub is done in 2 phases, see 1.1. below.

## 1.1. Phased Development

**Phase 1: Travel Scheme Hub**

In phase 1 the development was focused on creating a scalable Travel Scheme Hub instance that supports the broadest range of European travel terminals, Card Token IDs and Travel Scheme environment integration. This 'standard' functionality will be tested in three configurations according to the three real world examples offered by the Pilot Participants.

In this phase the focus was also on increasing stability, security, scalability, and performance of the authentication & routing hubs, the service interface layer and also addressing any Token ID Management idiosyncrasies that may appear in the creation of multi-token form factors for the associated Pilots.

See for more information about the Travel Scheme Hub, deliverable 6.2 of the ETC program.

**Phase 2: Interoperability Hub**

In phase 2 the development focused on creating and testing a split (or hybrid Hub) of Hub architecture, wherein the European Interoperable Hub was introduced to orchestrate simple interoperable travel by foreigners in friendly Travel Schemes abroad that have signed unilateral or bilateral interoperability agreements with the 'home' travel scheme of the traveller. See also deliverable 6.3 of the ETC program.

In this phase the focus was on stability, security, scalability, and performance of the European Interoperable Hub which due to its function and placement in the architecture has the highest uptime requirement of any ETC Hub. In particular the permutations in transaction routing that can occur due to interoperability decisions taken by Travel Schemes based upon their underlying bespoke transit systems will be examined and tested to ensure that these can be adjusted over time as each Travel scheme follows their own travel system roadmap in their pursuit of local ABT and cross border Interoperability.

## 1.2. Hubs as part of the Ecospace Core

The Travel Scheme Hub and Interoperability Hub are integral part of the Ecospace core, as defined in Deliverable 6.1 (Hub Design). The Ecospace Core is a software package comprising different integrated components.

A snapshot of the component versions is provided below (state per April 5, 2016).

## 1.3. Snapshot of the components

```
C:\42Tech\Live\api.auth\bin
   Api.Auth.dll: 1.0.0.0
   Api.Auth.Shared.dll: 1.0.0.0
   EntityFramework.dll: 6.0.0.0
   EntityFramework.SqlServer.dll: 6.0.0.0
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5899.26049
   FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5896.18764
   FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5899.26076
   FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
   HubApi.Services.dll: 1.0.0.0
   HubApi.Shared.Converters.dll: 1.0.0.0
   HubApi.Shared.dll: 1.0.0.0
   HubApi.Storage.dll: 1.0.0.0
   log4net.dll: 1.2.15.0
   MassTransit.dll: 3.2.0.0
   MassTransit.Log4NetIntegration.dll: 3.2.0.0
   MassTransit.RabbitMqTransport.dll: 3.2.0.0
   Microsoft.Owin.Cors.dll: 3.0.1.0
   Microsoft.Owin.dll: 3.0.1.0
   Microsoft.Owin.Host.SystemWeb.dll: 3.0.1.0
   Microsoft.Owin.Security.dll: 3.0.1.0
   Microsoft.Owin.Security.OAuth.dll: 3.0.1.0
   NewId.dll: 2.1.3.0
   Newtonsoft.Json.dll: 8.0.0.0
   Owin.dll: 1.0.0.0
   RabbitMQ.Client.dll: 3.6.0.0
   StackExchange.Redis.dll: 1.0.316.0
   System.Net.Http.Formatting.dll: 5.2.3.0
   System.Web.Cors.dll: 5.2.3.0
   System.Web.Http.dll: 5.2.3.0
   System.Web.Http.Owin.dll: 5.2.3.0
   System.Web.Http.WebHost.dll: 5.2.3.0
C:\42Tech\Live\Api.Sensor\bin
   Api.Auth.Shared.dll: 1.0.0.0
   Api.Sensor.dll: 1.0.0.0
   Api.Sensor.Services.dll: 1.0.0.0
   Autofac.dll: 3.5.0.0
   Autofac.Integration.Owin.dll: 3.1.0.0
   Autofac.Integration.WebApi.dll: 3.4.0.0
   Autofac.Integration.WebApi.Owin.dll: 3.3.0.0
   FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5899.26076
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5899.26049
   FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5896.18764
   FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5899.26076
   FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
```

```
    HubApi.Services.dll: 1.0.0.0
    HubApi.Shared.Converters.dll: 1.0.0.0
    HubApi.Shared.dll: 1.0.0.0
    HubApi.Shared.MassTransit.dll: 1.0.0.0
    log4net.dll: 1.2.15.0
    MassTransit.AutofacIntegration.dll: 3.2.0.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    Microsoft.Owin.Cors.dll: 3.0.1.0
    Microsoft.Owin.dll: 3.0.1.0
    Microsoft.Owin.Host.SystemWeb.dll: 3.0.1.0
    Microsoft.Owin.Security.dll: 3.0.1.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    Owin.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    StackExchange.Redis.Extensions.Core.dll: 1.3.0.0
    StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.0.0
    Swashbuckle.Core.dll: 1.0.0.0
    System.Net.Http.Formatting.dll: 5.2.3.0
    System.Web.Cors.dll: 5.2.3.0
    System.Web.Http.dll: 5.2.3.0
    System.Web.Http.Owin.dll: 5.2.3.0
    Thinktecture.IdentityModel.Core.dll: 1.2.0.0
C:\42Tech\Live\AuthBolton.Validator\bin\Release
    Autofac.dll: 3.5.0.0
    Autofac.Integration.Wcf.dll: 4.0.0.0
    FortytwoTech.EcoSpace.AuthBolton.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.AuthBolton.Shared.dll: 1.0.5933.21698
    FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5932.21240
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5932.21229
    FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5891.24092
    FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5891.24120
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    MassTransit.AutofacIntegration.dll: 3.2.0.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    StackExchange.Redis.Extensions.Core.dll: 1.2.0.0
```

```
    StackExchange.Redis.Extensions.Newtonsoft.dll: 1.2.0.0
    Topshelf.Autofac.dll: 1.0.0.0
    Topshelf.dll: 3.3.154.0
    Topshelf.Log4Net.dll: 3.3.154.0
    FortytwoTech.EcoSpace.AuthBolton.Validator.exe: 1.0.5933.21702
C:\42Tech\Live\AuthBolton.WinSvc\bin\Release
    Autofac.dll: 3.5.0.0
    Automatonymous.dll: 3.0.0.0
    Common.Logging.Core.dll: 3.3.1.0
    Common.Logging.dll: 3.3.1.0
    EntityFramework.dll: 6.0.0.0
    EntityFramework.SqlServer.dll: 6.0.0.0
    FortytwoTech.EcoSpace.AuthBolton.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.AuthBolton.Shared.dll: 1.0.5933.21698
    FortytwoTech.EcoSpace.AuthBolton.ValidationServices.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5932.21240
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5932.21229
    FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5891.24092
    FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5891.24120
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    Magnum.dll: 2.1.3.0
    MassTransit.AutofacIntegration.dll: 3.2.0.0
    MassTransit.AutomatonymousIntegration.dll: 3.2.0.0
    MassTransit.dll: 3.2.0.0
    MassTransit.EntityFrameworkIntegration.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.QuartzIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    OTICrypto.dll: 1.0.5889.37625
    Quartz.dll: 2.3.3.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    StackExchange.Redis.Extensions.Core.dll: 1.2.0.0
    StackExchange.Redis.Extensions.Newtonsoft.dll: 1.2.0.0
    Taskell.dll: 0.1.2.0
    Topshelf.Autofac.dll: 1.0.0.0
    Topshelf.dll: 3.3.154.0
    Topshelf.Log4Net.dll: 3.3.154.0
    FortytwoTech.EcoSpace.AuthBolton.WinSvc.exe: 1.0.5933.21705
C:\42Tech\Live\BlobStorageMonitor\bin\Release
    Microsoft.Data.Edm.dll: 5.6.2.0
    Microsoft.Data.OData.dll: 5.6.2.0
    Microsoft.Data.Services.Client.dll: 5.6.2.0
    Microsoft.WindowsAzure.Configuration.dll: 1.8.0.0
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    Microsoft.WindowsAzure.Storage.dll: 4.3.0.0
    Newtonsoft.Json.dll: 4.5.0.0
    System.Spatial.dll: 5.6.2.0
    Topshelf.dll: 3.1.135.0
    BlobStorageMonitor.exe: 1.0.0.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\de
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\es
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\fr
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\it
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\ja
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\ko
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\ru
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\zh-Hans
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\BlobStorageMonitor\bin\Release\zh-Hant
    Microsoft.Data.Edm.resources.dll: 5.6.2.0
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    Microsoft.Data.OData.resources.dll: 5.6.2.0
    Microsoft.Data.Services.Client.resources.dll: 5.6.2.0
    System.Spatial.resources.dll: 5.6.2.0
C:\42Tech\Live\CiCoWinSvc\bin\Release
    CiCoWcfService.dll: 1.0.0.0
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    CiCoWinSvc.exe: 1.0.0.0
C:\42Tech\Live\CurrentFortytwoTech.EcoSpace.TestRunner.Agent\bin\Rel
ease
    Autofac.dll: 3.5.0.0
    Autofac.Extras.Attributed.dll: 3.3.0.0
    Autofac.Integration.Mef.dll: 3.0.0.0
    EasyNetQ.DI.Autofac.dll: 0.50.10.403
    EasyNetQ.dll: 0.50.10.403
    FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5766.17336
    FortytwoTech.EcoSpace.Shared.Autofac.EasyNetQ.dll: 1.0.5763.15648
    FortytwoTech.EcoSpace.Shared.dll: 1.0.5763.15643
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5766.24806
    FortytwoTech.EcoSpace.TestRunner.Agent.PerformanceRecorder.dll:
1.0.0.0
    FortytwoTech.EcoSpace.TestRunner.Agent.Shared.dll: 1.0.0.0
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5800.22026
    HubApi.Shared.Models.dll: 1.0.5766.20732
    log4net.dll: 1.2.13.0
    Newtonsoft.Json.dll: 7.0.0.0
    RabbitMQ.Client.dll: 3.5.6.0
    RestSharp.Portable.dll: 2.4.0.0
    Topshelf.Autofac.dll: 1.0.0.0
    Topshelf.dll: 3.2.150.0
    Topshelf.Log4Net.dll: 3.2.150.0
    FortytwoTech.EcoSpace.TestRunner.Agent.exe: 1.0.0.0
C:\42Tech\Live\CurrentFortytwoTech.EcoSpace.TestRunner.Agent\bin\Rel
ease-Old
    Autofac.dll: 3.5.0.0
    Autofac.Extras.Attributed.dll: 3.3.0.0
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    Autofac.Integration.Mef.dll: 3.0.0.0
    EasyNetQ.DI.Autofac.dll: 0.50.10.403
    EasyNetQ.dll: 0.50.10.403
    FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5766.17336
    FortytwoTech.EcoSpace.Shared.Autofac.EasyNetQ.dll: 1.0.5763.15648
    FortytwoTech.EcoSpace.Shared.dll: 1.0.5763.15643
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5766.17330
    FortytwoTech.EcoSpace.TestRunner.Agent.PerformanceRecorder.dll:
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    FortytwoTech.EcoSpace.TestRunner.Agent.Shared.dll: 1.0.0.0
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5797.36328
    HubApi.Shared.Models.dll: 1.0.5766.20732
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    RestSharp.Portable.dll: 2.4.0.0
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    Topshelf.dll: 3.2.150.0
    Topshelf.Log4Net.dll: 3.2.150.0
    FortytwoTech.EcoSpace.TestRunner.Agent.exe: 1.0.0.0
C:\42Tech\Live\ECCSignWinService\bin\Release
    ECCSignWcfService.dll: 1.0.0.0
    log4net.dll: 1.2.13.0
    OTICrypto.dll: 1.0.5893.18503
    pcsc-sharp.dll: 3.1.0.2
    ECCSignWinService.exe: 1.0.0.0
C:\42Tech\Live\EcoAccessWinSvc\bin\Release
    EcoAccessWcfService.dll: 1.0.0.0
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    EcoAccessWinSvc.exe: 1.0.0.0
C:\42Tech\Live\EcoCheckInWinSvc\bin\Release
    EcoCheckInWcfService.dll: 1.0.0.0
    EcoThreading.dll: 1.0.0.0
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
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    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    EcoCheckInWinSvc.exe: 1.0.0.0
C:\42Tech\Live\EcoCiCoWhitelistWinSvc\bin\Release
    EcoCiCoWhitelistWcfService.dll: 1.0.0.0
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    EcoCiCoWhitelistWinSvc.exe: 1.0.0.0
C:\42Tech\Live\EcoCSharpTestClient\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    log4net.dll: 1.2.15.0
    PayterPaymentEngine.dll: 1.4.4274.14963
    StackExchange.Redis.dll: 1.0.316.0
    EcoCSharpTestClient.exe: 1.0.0.0
C:\42Tech\Live\EcoGarderobeWinSvc\bin\Release
    EcoGarderobeWcfService.dll: 1.0.0.0
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    EcoGarderobeWinSvc.exe: 1.0.0.0
C:\42Tech\Live\EcoIdentityWinSvc\bin\Release
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```
EcoIdentityWcfService.dll: 1.0.0.0
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5905.28053
FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5905.28083
log4net.dll: 1.2.15.0
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 8.0.0.0
PSMReusableComponents.dll: 1.0.5905.22543
RabbitManager.dll: 1.0.0.0
RabbitMQ.Client.dll: 3.6.0.0
StackExchange.Redis.dll: 1.0.316.0
StackExchange.Redis.Extensions.Core.dll: 1.3.2.0
StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.2.0
EcoIdentityWinSvc.exe: 1.0.0.0
C:\42Tech\Live\EcoPaymentWinSvc\bin\Release
EcoPaymentWcfService.dll: 1.0.0.0
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5905.28053
FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5905.28083
FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
log4net.dll: 1.2.15.0
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 8.0.0.0
PSMReusableComponents.dll: 1.0.5905.22543
RabbitManager.dll: 1.0.0.0
RabbitMQ.Client.dll: 3.6.0.0
StackExchange.Redis.dll: 1.0.316.0
StackExchange.Redis.Extensions.Core.dll: 1.3.2.0
StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.2.0
EcoPaymentWinSvc.exe: 1.0.0.0
C:\42Tech\Live\EcoRentalWinSvc\bin\Release
EcoRentalWcfService.dll: 1.0.0.0
FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
log4net.dll: 1.2.15.0
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 8.0.0.0
```

```
   RabbitManager.dll: 1.0.0.0
   RabbitMQ.Client.dll: 3.6.0.0
   StackExchange.Redis.dll: 1.0.316.0
   EcoRentalWinSvc.exe: 1.0.0.0
C:\42Tech\Live\Ecospace.WinSvc\bin\Release
   Autofac.dll: 3.5.0.0
   Common.Logging.Core.dll: 3.3.1.0
   Common.Logging.dll: 3.3.1.0
   Couchbase.NetClient.dll: 2.2.5.0
   EcoZhub.Consumers.dll: 1.0.5933.21696
   EcoZhub.ServiceHandlers.dll: 1.0.0.0
   FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
   FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5905.26991
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
   FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5905.28053
   FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5905.28083
   FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
   log4net.dll: 1.2.15.0
   MassTransit.AutofacIntegration.dll: 3.2.0.0
   MassTransit.dll: 3.2.0.0
   MassTransit.Log4NetIntegration.dll: 3.2.0.0
   MassTransit.RabbitMqTransport.dll: 3.2.0.0
   NewId.dll: 2.1.3.0
   Newtonsoft.Json.dll: 8.0.0.0
   Notification.Consumers.dll: 1.0.5933.21707
   PushSharp.Android.dll: 2.2.1.0
   PushSharp.Core.dll: 2.2.1.0
   RabbitMQ.Client.dll: 3.6.0.0
   Shared.Consumers.dll: 1.0.0.0
   StackExchange.Redis.dll: 1.0.316.0
   StackExchange.Redis.Extensions.Core.dll: 1.3.2.0
   StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.2.0
   Topshelf.Autofac.dll: 1.0.0.0
   Topshelf.dll: 3.3.154.0
   Topshelf.Log4Net.dll: 3.3.154.0
   VReceipt.Consumers.dll: 1.0.5933.21705
   Xan.Consumers.dll: 1.0.5933.21705
   Ecospace.WinSvc.exe: 1.0.5933.21708
C:\42Tech\Live\EcoWalletWinSvc\bin\Release
   EcoWalletWcfService.dll: 1.0.0.0
   FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
   FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
   log4net.dll: 1.2.15.0
   MassTransit.dll: 3.2.0.0
   MassTransit.Log4NetIntegration.dll: 3.2.0.0
   MassTransit.RabbitMqTransport.dll: 3.2.0.0
```

```
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    EcoWalletWinSvc.exe: 1.0.0.0
C:\42Tech\Live\EcoZhubWinSvc\bin\Release
    EcoZhub.ServiceHandlers.dll: 1.0.0.0
    EcoZHubWcfService.dll: 1.0.0.0
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5905.28053
    FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5905.28083
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    StackExchange.Redis.Extensions.Core.dll: 1.3.2.0
    StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.2.0
    EcoZhubWinSvc.exe: 1.0.0.0
C:\42Tech\Live\Email.Service\bin\Release
    Autofac.dll: 3.5.0.0
    Autofac.Integration.Wcf.dll: 3.0.0.0
    log4net.dll: 1.2.13.0
    RazorEngine.dll: 3.4.1.0
    System.Web.Razor.dll: 3.0.0.0
    TokenManagement.Shared.dll: 1.0.0.0
    Topshelf.Autofac.dll: 1.0.0.0
    Topshelf.dll: 3.1.135.0
    Topshelf.Log4Net.dll: 3.1.135.0
    Email.Service.exe: 1.0.0.0
C:\42Tech\Live\ETLabWinSvc\bin\Release
    ETLabPushService.dll: 1.0.0.0
    ETLabWcfService.dll: 1.0.0.0
    log4net.dll: 1.2.13.0
    Newtonsoft.Json.dll: 8.0.0.0
    PushSharp.Android.dll: 2.2.1.0
    PushSharp.Core.dll: 2.2.1.0
    ETLabWinSvc.exe: 1.0.0.0
```

```
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.ETLabActivator
\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.Ecospace.TerminalSoftware.ETLabActivator.exe:
2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.POSClient\bin\
Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.Ecospace.TerminalSoftware.POSClient.exe:
2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
CiBus\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    RabbitMQ.Client.dll: 3.6.0.0
    RestSharp.Portable.Core.dll: 3.1.0.0
```

```
RestSharp.Portable.HttpClient.dll: 3.1.0.0
Topshelf.dll: 3.3.152.0
Topshelf.Log4Net.dll: 3.3.152.0
FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
```
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
CicoAmersfoort\bin\Release
```
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
log4net.dll: 1.2.14.0
MassTransit.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 7.0.0.0
OTICrypto.dll: 1.0.5893.18503
PayterPaymentEngine.dll: 1.4.4274.14963
PayterRTP.dll: unknown
pthreadGC2.dll: unknown
RabbitMQ.Client.dll: 3.6.0.0
RestSharp.Portable.Core.dll: 3.1.0.0
RestSharp.Portable.HttpClient.dll: 3.1.0.0
Topshelf.dll: 3.3.152.0
Topshelf.Log4Net.dll: 3.3.152.0
FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
```
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
CicoAmsterdam\bin\Release
```
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
log4net.dll: 1.2.14.0
MassTransit.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 7.0.0.0
OTICrypto.dll: 1.0.5893.18503
PayterPaymentEngine.dll: 1.4.4274.14963
PayterRTP.dll: unknown
pthreadGC2.dll: unknown
RabbitMQ.Client.dll: 3.6.0.0
RestSharp.Portable.Core.dll: 3.1.0.0
RestSharp.Portable.HttpClient.dll: 3.1.0.0
Topshelf.dll: 3.3.152.0
Topshelf.Log4Net.dll: 3.3.152.0
```

```
FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
CiFerry\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    RabbitMQ.Client.dll: 3.6.0.0
    RestSharp.Portable.Core.dll: 3.1.0.0
    RestSharp.Portable.HttpClient.dll: 3.1.0.0
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
CiTram\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    RabbitMQ.Client.dll: 3.6.0.0
    RestSharp.Portable.Core.dll: 3.1.0.0
    RestSharp.Portable.HttpClient.dll: 3.1.0.0
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
IAmsterdam\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
```

```
FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    RabbitMQ.Client.dll: 3.6.0.0
    RestSharp.Portable.Core.dll: 3.1.0.0
    RestSharp.Portable.HttpClient.dll: 3.1.0.0
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
TaskBug\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    RabbitMQ.Client.dll: 3.6.0.0
    RestSharp.Portable.Core.dll: 3.1.0.0
    RestSharp.Portable.HttpClient.dll: 3.1.0.0
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
Topup\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
```

```
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    RabbitMQ.Client.dll: 3.6.0.0
    RestSharp.Portable.Core.dll: 3.1.0.0
    RestSharp.Portable.HttpClient.dll: 3.1.0.0
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
UnderConstruction\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 7.0.0.0
    OTICrypto.dll: 1.0.5893.18503
    PayterPaymentEngine.dll: 1.4.4274.14963
    PayterRTP.dll: unknown
    pthreadGC2.dll: unknown
    RabbitMQ.Client.dll: 3.6.0.0
    RestSharp.Portable.Core.dll: 3.1.0.0
    RestSharp.Portable.HttpClient.dll: 3.1.0.0
    Topshelf.dll: 3.3.152.0
    Topshelf.Log4Net.dll: 3.3.152.0
    FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
WLCico1\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
    FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
    FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.14.0
    MassTransit.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
```

```
   NewId.dll: 2.1.3.0
   Newtonsoft.Json.dll: 7.0.0.0
   OTICrypto.dll: 1.0.5893.18503
   PayterPaymentEngine.dll: 1.4.4274.14963
   PayterRTP.dll: unknown
   pthreadGC2.dll: unknown
   RabbitMQ.Client.dll: 3.6.0.0
   RestSharp.Portable.Core.dll: 3.1.0.0
   RestSharp.Portable.HttpClient.dll: 3.1.0.0
   Topshelf.dll: 3.3.152.0
   Topshelf.Log4Net.dll: 3.3.152.0
   FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.Ecospace.TerminalSoftware.Runner-
WLCico2\bin\Release
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5911.20359
   FortytwoTech.Ecospace.TerminalSoftware.dll: 2.1.5933.21654
   FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5911.18982
   FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
   log4net.dll: 1.2.14.0
   MassTransit.dll: 3.2.0.0
   MassTransit.RabbitMqTransport.dll: 3.2.0.0
   NewId.dll: 2.1.3.0
   Newtonsoft.Json.dll: 7.0.0.0
   OTICrypto.dll: 1.0.5893.18503
   PayterPaymentEngine.dll: 1.4.4274.14963
   PayterRTP.dll: unknown
   pthreadGC2.dll: unknown
   RabbitMQ.Client.dll: 3.6.0.0
   RestSharp.Portable.Core.dll: 3.1.0.0
   RestSharp.Portable.HttpClient.dll: 3.1.0.0
   Topshelf.dll: 3.3.152.0
   Topshelf.Log4Net.dll: 3.3.152.0
   FortytwoTech.EcoSpace.TerminalSoftware.Runner.exe: 2.1.5933.21654
C:\42Tech\Live\FortytwoTech.EcoSpace.TestRunner.Agent\bin\Release
   Autofac.dll: 3.5.0.0
   FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5899.26076
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5899.26049
   FortytwoTech.EcoSpace.TestRunner.Agent.PerformanceRecorder.dll:
1.0.0.0
   FortytwoTech.EcoSpace.TestRunner.Agent.Shared.dll: 1.0.0.0
   FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5933.21659
   FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
   HubApi.Shared.Models.dll: 1.0.5899.29882
   log4net.dll: 1.2.15.0
   MassTransit.AutofacIntegration.dll: 3.2.0.0
```

```
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 8.0.0.0
RabbitMQ.Client.dll: 3.6.0.0
RestSharp.Portable.dll: 2.4.0.0
Topshelf.Autofac.dll: 1.0.0.0
Topshelf.dll: 3.3.154.0
Topshelf.Log4Net.dll: 3.3.154.0
FortytwoTech.EcoSpace.TestRunner.Agent.exe: 1.0.0.0
C:\42Tech\Live\HubApi.Rest\bin
EntityFramework.dll: 6.0.0.0
EntityFramework.SqlServer.dll: 6.0.0.0
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5899.26049
FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5896.18764
FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5899.26076
FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
HubApi.Rest.dll: 1.0.0.0
HubApi.Services.dll: 1.0.0.0
HubApi.Shared.Converters.dll: 1.0.0.0
HubApi.Shared.dll: 1.0.0.0
HubApi.Storage.dll: 1.0.0.0
log4net.dll: 1.2.15.0
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
Microsoft.AI.Agent.Intercept.dll: 1.2.0.1011
Microsoft.AI.DependencyCollector.dll: 1.2.3.246
Microsoft.AI.PerfCounterCollector.dll: 1.2.3.246
Microsoft.AI.ServerTelemetryChannel.dll: 1.2.3.246
Microsoft.AI.Web.dll: 1.2.3.246
Microsoft.AI.WindowsServer.dll: 1.2.3.246
Microsoft.ApplicationInsights.dll: 1.2.3.490
Microsoft.ApplicationInsights.Log4NetAppender.dll: 1.2.6.0
Microsoft.Owin.Cors.dll: 3.0.1.0
Microsoft.Owin.dll: 3.0.1.0
Microsoft.Owin.Host.SystemWeb.dll: 3.0.1.0
Microsoft.Owin.Security.dll: 3.0.1.0
Microsoft.Owin.Security.OAuth.dll: 3.0.1.0
Microsoft.Web.Infrastructure.dll: 1.0.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 8.0.0.0
Owin.dll: 1.0.0.0
RabbitMQ.Client.dll: 3.6.0.0
StackExchange.Redis.dll: 1.0.316.0
StackExchange.Redis.Extensions.Core.dll: 1.3.0.0
```

```
    StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.0.0
    Swashbuckle.Core.dll: 1.0.0.0
    System.Net.Http.Formatting.dll: 5.2.3.0
    System.Web.Cors.dll: 5.2.3.0
    System.Web.Http.dll: 5.2.3.0
    System.Web.Http.Owin.dll: 5.2.3.0
    System.Web.Http.Tracing.dll: 5.2.3.0
    System.Web.Http.WebHost.dll: 5.2.3.0
    WebActivatorEx.dll: 2.0.0.0
C:\42Tech\Live\InteropWinSvc\bin\Release
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5899.26049
    FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5896.18764
    FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5899.26076
    InteropWcfServiceLibrary.dll: 1.0.0.0
    log4net.dll: 1.2.15.0
    Newtonsoft.Json.dll: 8.0.0.0
    StackExchange.Redis.dll: 1.0.316.0
    StackExchange.Redis.Extensions.Core.dll: 1.2.0.0
    StackExchange.Redis.Extensions.Newtonsoft.dll: 1.2.0.0
    InteropWinSvc.exe: 1.0.0.0
C:\42Tech\Live\LunchCoinsWinSvc\bin\Release
    EcoWalletWcfService.dll: 1.0.0.0
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
    FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
    RabbitManager.dll: 1.0.0.0
    RabbitMQ.Client.dll: 3.6.0.0
    StackExchange.Redis.dll: 1.0.316.0
    LunchCoinsWinSvc.exe: 1.0.0.0
C:\42Tech\Live\MultiLabWinSvc\bin\Release
    FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
    FortytwoTech.EcoSpace.Shared.dll: 1.0.5868.17100
    FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5898.25574
    log4net.dll: 1.2.15.0
    MassTransit.dll: 3.2.0.0
    MassTransit.Log4NetIntegration.dll: 3.2.0.0
    MassTransit.RabbitMqTransport.dll: 3.2.0.0
    MultiLabWcf.Impl.dll: 1.0.0.0
    MultiLabWcfService.dll: 1.0.0.0
    NewId.dll: 2.1.3.0
    Newtonsoft.Json.dll: 8.0.0.0
```

```
   RabbitManager.dll: 1.0.0.0
   RabbitMQ.Client.dll: 3.6.0.0
   MultiLabWinSvc.exe: 1.0.0.0
C:\42Tech\Live\MultiLabWinSvc\bin\Release\backup
   FortytwoTech.EcoSpace.Shared.dll: 1.0.5868.17100
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5898.25574
   log4net.dll: 1.2.15.0
   MassTransit.dll: 3.2.0.0
   MassTransit.Log4NetIntegration.dll: 3.2.0.0
   MassTransit.RabbitMqTransport.dll: 3.2.0.0
   MultiLabWcf.Impl.dll: 1.0.0.0
   MultiLabWcfService.dll: 1.0.0.0
   NewId.dll: 2.1.3.0
   Newtonsoft.Json.dll: 8.0.0.0
   RabbitManager.dll: 1.0.0.0
   RabbitMQ.Client.dll: 3.6.0.0
   MultiLabWinSvc.exe: 1.0.0.0
C:\42Tech\Live\PnRLux.Api\bin
   FortytwoTech.EcoSpace.Shared.dll: 1.0.5868.17100
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5898.25574
   FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5876.26223
   FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5882.20585
   log4net.dll: 1.2.15.0
   Microsoft.Owin.Cors.dll: 3.0.1.0
   Microsoft.Owin.dll: 3.0.1.0
   Microsoft.Owin.Host.SystemWeb.dll: 3.0.1.0
   Microsoft.Owin.Security.dll: 3.0.1.0
   Microsoft.Owin.Security.OAuth.dll: 3.0.1.0
   Microsoft.Web.Infrastructure.dll: 1.0.0.0
   Newtonsoft.Json.dll: 8.0.0.0
   Owin.dll: 1.0.0.0
   Services.PnRLuxHub.Api.dll: 1.0.0.0
   StackExchange.Redis.dll: 1.0.316.0
   StackExchange.Redis.Extensions.Core.dll: 1.1.14.0
   StackExchange.Redis.Extensions.Newtonsoft.dll: 1.1.11.0
   Swashbuckle.Core.dll: 1.0.0.0
   System.Net.Http.Formatting.dll: 5.2.3.0
   System.Web.Cors.dll: 5.2.3.0
   System.Web.Http.dll: 5.2.3.0
   System.Web.Http.Owin.dll: 5.2.3.0
   System.Web.Http.WebHost.dll: 5.2.3.0
   WebActivatorEx.dll: 2.0.0.0
C:\42Tech\Live\PnRLuxWinSvc\bin\Release
   FortytwoTech.EcoSpace.Shared.dll: 1.0.5868.17100
   FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5898.25574
   log4net.dll: 1.2.15.0
   MassTransit.dll: 3.2.0.0
```

```
  MassTransit.Log4NetIntegration.dll: 3.2.0.0
  MassTransit.RabbitMqTransport.dll: 3.2.0.0
  NewId.dll: 2.1.3.0
  Newtonsoft.Json.dll: 8.0.0.0
  PnRLuxWcfSvc.dll: 1.0.0.0
  RabbitManager.dll: 1.0.0.0
  RabbitMQ.Client.dll: 3.6.0.0
  RestSharp.Portable.Core.dll: 3.1.0.0
  RestSharp.Portable.HttpClient.dll: 3.1.0.0
  PnRLuxWinSvc.exe: 1.0.0.0
C:\42Tech\Live\PostPaidWinService\bin\Release
  FortytwoTech.EcoSpace.EcoZhub.Shared.Models.dll: 1.0.0.0
  FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
  FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
  log4net.dll: 1.2.15.0
  MassTransit.dll: 3.2.0.0
  MassTransit.Log4NetIntegration.dll: 3.2.0.0
  MassTransit.RabbitMqTransport.dll: 3.2.0.0
  NewId.dll: 2.1.3.0
  Newtonsoft.Json.dll: 8.0.0.0
  PostPaidWcfService.dll: 1.0.0.0
  PSMReusableComponents.dll: 1.0.5905.22543
  RabbitManager.dll: 1.0.0.0
  RabbitMQ.Client.dll: 3.6.0.0
  StackExchange.Redis.dll: 1.0.316.0
  PostPaidWinService.exe: 1.0.0.0
C:\42Tech\Live\POSWinSvc\bin\Release
  FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
  log4net.dll: 1.2.15.0
  Newtonsoft.Json.dll: 8.0.0.0
  POSWcfService.dll: 1.0.0.0
  StackExchange.Redis.dll: 1.0.316.0
  POSWinSvc.exe: 1.0.0.0
C:\42Tech\Live\TokenManagement\bin
  Antlr3.Runtime.dll: 3.5.0.2
  Autofac.dll: 3.5.0.0
  Autofac.Integration.Mvc.dll: 3.3.0.0
  Autofac.Integration.SignalR.dll: 3.0.0.0
  BundleTransformer.Core.dll: 1.9.43.0
  BundleTransformer.Less.dll: 1.9.46.0
  ClearScript.dll: 5.4.1.0
  Datatables.Mvc.dll: 4.0.0.0
  EntityFramework.dll: 6.0.0.0
  EntityFramework.SqlServer.dll: 6.0.0.0
  JavaScriptEngineSwitcher.Core.dll: 1.2.4.0
  JavaScriptEngineSwitcher.V8.dll: 1.2.4.0
  LinqKit.dll: 1.1.1.0
```

```
    log4net.dll: 1.2.13.0
    Microsoft.AspNet.Identity.Core.dll: 2.0.0.0
    Microsoft.AspNet.Identity.EntityFramework.dll: 2.0.0.0
    Microsoft.AspNet.Identity.Owin.dll: 2.0.0.0
    Microsoft.AspNet.SignalR.Core.dll: 2.1.2.0
    Microsoft.AspNet.SignalR.SystemWeb.dll: 2.1.2.0
    Microsoft.Owin.dll: 3.0.0.0
    Microsoft.Owin.Host.SystemWeb.dll: 3.0.0.0
    Microsoft.Owin.Security.Cookies.dll: 3.0.0.0
    Microsoft.Owin.Security.dll: 3.0.0.0
    Microsoft.Owin.Security.Facebook.dll: 3.0.0.0
    Microsoft.Owin.Security.Google.dll: 3.0.0.0
    Microsoft.Owin.Security.MicrosoftAccount.dll: 3.0.0.0
    Microsoft.Owin.Security.OAuth.dll: 3.0.0.0
    Microsoft.Owin.Security.Twitter.dll: 3.0.0.0
    Microsoft.Web.Infrastructure.dll: 1.0.0.0
    Newtonsoft.Json.dll: 6.0.0.0
    Owin.dll: 1.0.0.0
    System.Web.Helpers.dll: 3.0.0.0
    System.Web.Mvc.dll: 5.2.2.0
    System.Web.Optimization.dll: 1.1.0.0
    System.Web.Razor.dll: 3.0.0.0
    System.Web.WebPages.Deployment.dll: 3.0.0.0
    System.Web.WebPages.dll: 3.0.0.0
    System.Web.WebPages.Razor.dll: 3.0.0.0
    TokenManagement.Data.dll: 1.0.0.0
    TokenManagement.dll: 1.0.0.0
    TokenManagement.Shared.dll: 1.0.0.0
    TokenManagement.Yubico.dll: 1.0.0.0
    WebGrease.dll: 1.6.5135.21930
    YubicoDotNetClient.dll: 1.1.0.0
C:\42Tech\Live\TokenManagement\bin\ClearScript.V8
    ClearScriptV8-32.dll: unknown
    ClearScriptV8-64.dll: unknown
    v8-ia32.dll: unknown
    v8-x64.dll: unknown
C:\42Tech\Live\TokenManagement\bin\ru-ru
    BundleTransformer.Core.resources.dll: 1.9.43.0
    BundleTransformer.Less.resources.dll: 1.9.46.0
    JavaScriptEngineSwitcher.Core.resources.dll: 1.2.4.0
    JavaScriptEngineSwitcher.V8.resources.dll: 1.2.4.0
C:\42Tech\Live\TokenManagement.QC.Service\bin\Release
    Autofac.dll: 3.5.0.0
    Autofac.Integration.Wcf.dll: 3.0.0.0
    EntityFramework.dll: 6.0.0.0
    EntityFramework.SqlServer.dll: 6.0.0.0
    LinqKit.dll: 1.1.1.0
```

```
log4net.dll: 1.2.13.0
Microsoft.AspNet.Identity.Core.dll: 2.0.0.0
Microsoft.AspNet.Identity.EntityFramework.dll: 2.0.0.0
Microsoft.AspNet.Identity.Owin.dll: 2.0.0.0
Microsoft.Owin.dll: 3.0.0.0
Microsoft.Owin.Security.Cookies.dll: 3.0.0.0
Microsoft.Owin.Security.dll: 3.0.0.0
Microsoft.Owin.Security.OAuth.dll: 3.0.0.0
Newtonsoft.Json.dll: 6.0.0.0
Owin.dll: 1.0.0.0
TokenManagement.Data.dll: 1.0.0.0
TokenManagement.Shared.dll: 1.0.0.0
Topshelf.Autofac.dll: 1.0.0.0
Topshelf.dll: 3.1.135.0
Topshelf.Log4Net.dll: 3.1.135.0
TokenManagement.QC.Service.exe: 1.0.0.0
C:\42Tech\Live\TokenManagement.Service\bin\Release
Autofac.dll: 3.5.0.0
Autofac.Integration.Wcf.dll: 3.0.0.0
EntityFramework.dll: 6.0.0.0
EntityFramework.SqlServer.dll: 6.0.0.0
LinqKit.dll: 1.1.1.0
log4net.dll: 1.2.13.0
Microsoft.AspNet.Identity.Core.dll: 2.0.0.0
Microsoft.AspNet.Identity.EntityFramework.dll: 2.0.0.0
Microsoft.AspNet.Identity.Owin.dll: 2.0.0.0
Microsoft.Owin.dll: 3.0.0.0
Microsoft.Owin.Security.Cookies.dll: 3.0.0.0
Microsoft.Owin.Security.dll: 3.0.0.0
Microsoft.Owin.Security.OAuth.dll: 3.0.0.0
Microsoft.Web.FtpServer.dll: 7.5.0.0
Newtonsoft.Json.dll: 6.0.0.0
Owin.dll: 1.0.0.0
TokenManagement.Data.dll: 1.0.0.0
TokenManagement.Shared.dll: 1.0.0.0
Topshelf.Autofac.dll: 1.0.0.0
Topshelf.dll: 3.1.135.0
Topshelf.Log4Net.dll: 3.1.135.0
TokenManagement.Service.exe: 1.0.0.0
C:\42Tech\Live\VReceiptWinSvc\bin\Release
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5905.28053
FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5905.28083
FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
log4net.dll: 1.2.15.0
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
```

```
  MassTransit.RabbitMqTransport.dll: 3.2.0.0
  NewId.dll: 2.1.3.0
  Newtonsoft.Json.dll: 8.0.0.0
  PSMReusableComponents.dll: 1.0.5905.22543
  RabbitManager.dll: 1.0.0.0
  RabbitMQ.Client.dll: 3.6.0.0
  StackExchange.Redis.dll: 1.0.316.0
  StackExchange.Redis.Extensions.Core.dll: 1.3.2.0
  StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.2.0
  VReceiptWcfService.dll: 1.0.0.0
  VReceiptWinSvc.exe: 1.0.0.0
C:\42Tech\Live\WLCiCoClient1
  log4net.dll: 1.2.13.0
  OTICrypto.dll: 1.0.5525.26177
  PayterPaymentEngine.dll: 1.4.4274.14963
  PayterRTP.dll: unknown
  pthreadGC2.dll: unknown
  ReaderInteraction.dll: 1.0.0.0
  CiCoClient.exe: 1.0.0.0
C:\42Tech\Live\WLCiCoClient1\backup
  log4net.dll: 1.2.13.0
  OTICrypto.dll: 1.0.5492.29329
  PayterPaymentEngine.dll: 1.4.4274.14963
  PayterRTP.dll: unknown
  PSMReusableComponents.dll: 1.0.0.1
  pthreadGC2.dll: unknown
  ReaderInteraction.dll: 1.0.0.0
  CiCoClient.exe: 1.0.0.0
C:\42Tech\Live\WLCiCoClient2
  log4net.dll: 1.2.13.0
  OTICrypto.dll: 1.0.5525.26177
  PayterPaymentEngine.dll: 1.4.4274.14963
  PayterRTP.dll: unknown
  pthreadGC2.dll: unknown
  ReaderInteraction.dll: 1.0.0.0
  CiCoClient.exe: 1.0.0.0
C:\42Tech\Live\WLCiCoClient2\backup
  log4net.dll: 1.2.13.0
  OTICrypto.dll: 1.0.5492.29329
  PayterPaymentEngine.dll: 1.4.4274.14963
  PayterRTP.dll: unknown
  PSMReusableComponents.dll: 1.0.0.1
  pthreadGC2.dll: unknown
  ReaderInteraction.dll: 1.0.0.0
  CiCoClient.exe: 1.0.0.0
C:\42Tech\Live\Xan.Dashboard\bin
  Antlr3.Runtime.dll: 3.5.0.2
```

```
Autofac.dll: 3.5.0.0
Autofac.Integration.Mvc.dll: 3.3.0.0
Autofac.Integration.Mvc.Owin.dll: 3.1.0.0
Autofac.Integration.Owin.dll: 3.1.0.0
Autofac.Integration.SignalR.dll: 3.0.0.0
FortytwoTech.EcoSpace.Shared.Autofac.dll: 1.0.5905.16469
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.16442
FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5896.18764
FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5905.16469
FortytwoTech.EcoSpace.TestRunner.Shared.Models.dll:
1.0.5905.14807
FortytwoTech.Shared.Extensions.dll: 1.0.5892.21596
log4net.dll: 1.2.15.0
MassTransit.AutofacIntegration.dll: 3.2.0.0
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
Microsoft.AspNet.SignalR.Core.dll: 2.2.0.0
Microsoft.AspNet.SignalR.SystemWeb.dll: 2.2.0.0
Microsoft.Owin.dll: 3.0.1.0
Microsoft.Owin.Host.SystemWeb.dll: 3.0.1.0
Microsoft.Owin.Security.dll: 3.0.1.0
Microsoft.Web.Infrastructure.dll: 1.0.0.0
MvcCheckBoxList.dll: 1.4.5.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 8.0.0.0
Owin.dll: 1.0.0.0
RabbitMQ.Client.dll: 3.6.0.0
SignalR.Extras.Autofac.dll: 1.1.1.0
StackExchange.Redis.dll: 1.0.316.0
StackExchange.Redis.Extensions.Core.dll: 1.3.2.0
StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.2.0
System.Web.Helpers.dll: 3.0.0.0
System.Web.Mvc.dll: 5.2.3.0
System.Web.Optimization.dll: 1.1.0.0
System.Web.Razor.dll: 3.0.0.0
System.Web.WebPages.Deployment.dll: 3.0.0.0
System.Web.WebPages.dll: 3.0.0.0
System.Web.WebPages.Razor.dll: 3.0.0.0
WebGrease.dll: 1.6.5135.21930
Xan.Dashboard.Consumers.dll: 1.0.0.0
Xan.Dashboard.dll: 1.0.0.0
C:\42Tech\Live\XANWinSvc\bin\Release
FortytwoTech.EcoSpace.Shared.EcoClasses.dll: 1.0.5905.26962
FortytwoTech.EcoSpace.Shared.Redis.Core.dll: 1.1.5905.28053
FortytwoTech.EcoSpace.Shared.Redis.dll: 1.1.5905.28083
log4net.dll: 1.2.15.0
```

```
MassTransit.dll: 3.2.0.0
MassTransit.Log4NetIntegration.dll: 3.2.0.0
MassTransit.RabbitMqTransport.dll: 3.2.0.0
NewId.dll: 2.1.3.0
Newtonsoft.Json.dll: 8.0.0.0
RabbitManager.dll: 1.0.0.0
RabbitMQ.Client.dll: 3.6.0.0
StackExchange.Redis.dll: 1.0.316.0
StackExchange.Redis.Extensions.Core.dll: 1.3.2.0
StackExchange.Redis.Extensions.Newtonsoft.dll: 1.3.2.0
XANWcfService.dll: 1.0.0.0
XANWinSvc.exe: 1.0.0.0
```