SSIS Framework Community Edition  
Documentation and User Guide

Andy Leonard

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The SSIS Framework Community Edition is free and subject to the GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007. You can find a copy in [Appendix A - GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007](#_Appendix_A_-).

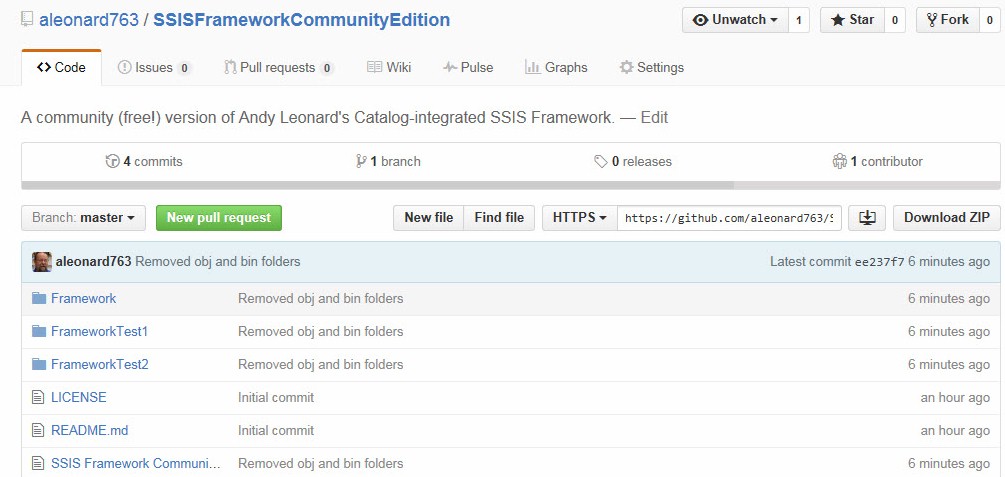
# General

In summary, the steps for installing SSIS Framework Community Edition are:

* [Obtain the code](#_Obtain_the_Code)
* [Add an SSIS Catalog](#_Add_an_SSIS) to a SQL Server instance
* [Execute the SSIS Framework Community Edition T-SQL scripts](#_Execute_the_SSIS)
* [Deploy the SSIS Framework Community Edition SSIS projects](#_Deploy_the_SSIS)
* [Test!](#_Test)

# Obtain the Code

To obtain the code, connect to GitHub at <https://github.com/aleonard763/SSISFrameworkCommunityEdition>:

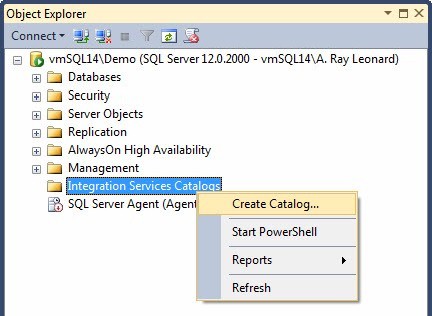


Save the code to a location you can readily access.

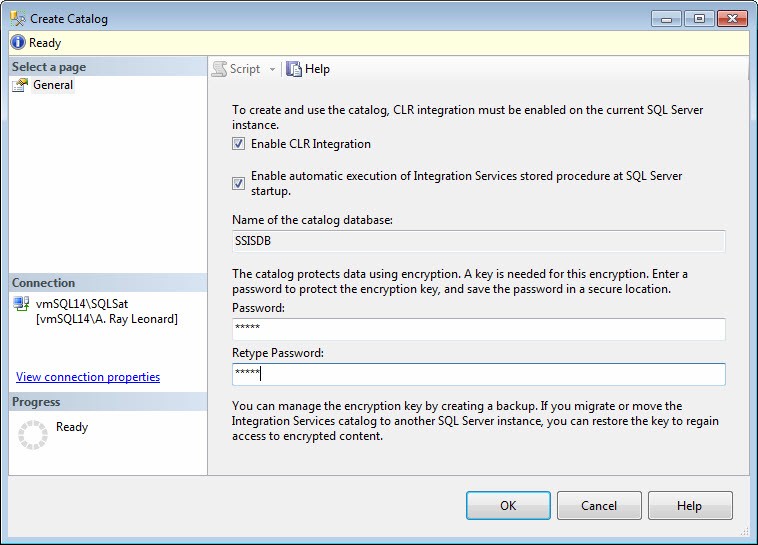
# Add an SSIS Catalog

If you already have an SSIS Catalog configured on an instance of SQL Server, you may skip this step.

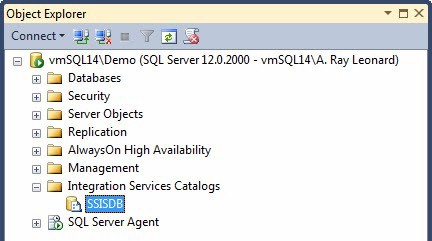
Use SQL Server Management Studio (SSMS) to connect to the instance of SQL Server and open Object Explorer. Right-click the Integration Services Catalogs node and click Create Catalog:



When the Create Catalog window displays, Check the “Enable CLR Integration” checkbox to enable additional controls on the page. You don’t have to, but I recommend you check the “Enable automatic execution of Integration Services stored procedure at SQL Server startup” checkbox. You will need to supply a password (twice):

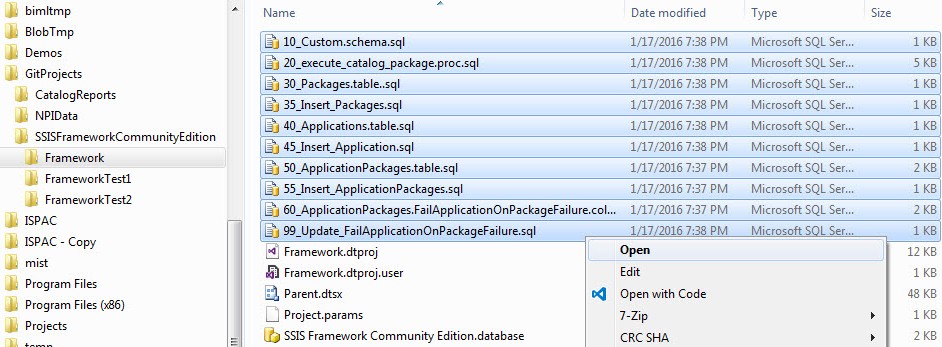


Once created, the SSIS Catalog will appear as shown below:

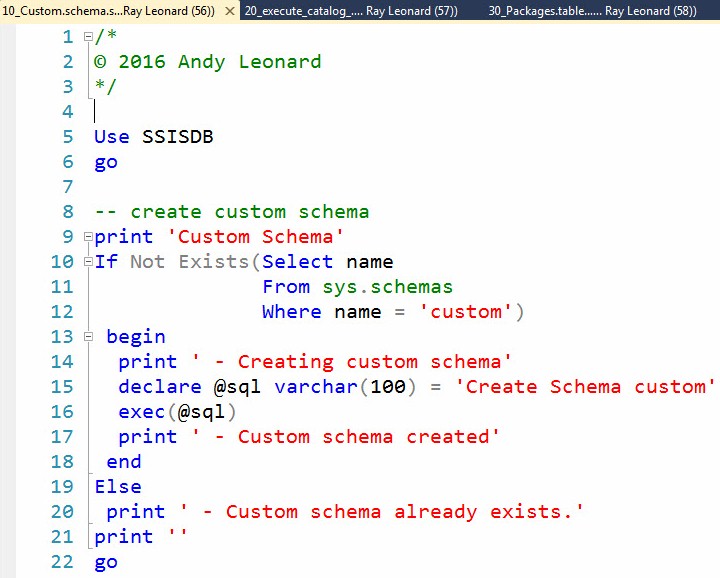


# Execute the SSIS Framework Community Edition T-SQL Scripts

Navigate to the location you stored the SSISFrameworkCommunityEdition GitHub project. Open the Framework folder and then open the T-SQL scripts:

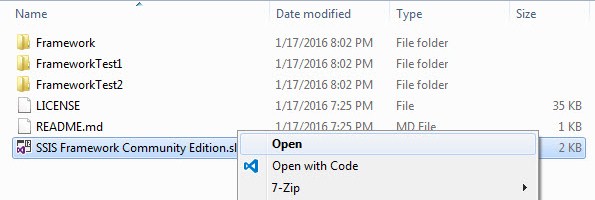


Execute the scripts in numerical order (by the number at the beginning of each file name):

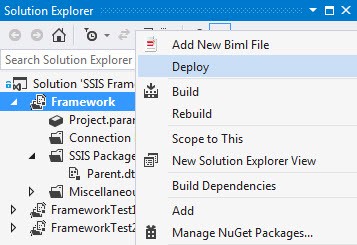


# Deploy the SSIS Framework Community Edition SSIS Projects

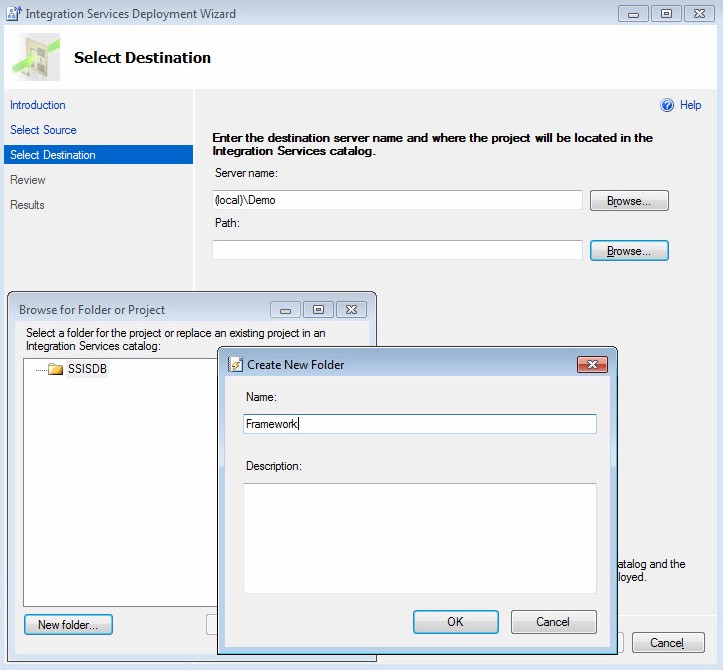
Open the SSIS Framework Community Edition Visual Studio solution file from the SSISFrameworkCommunityEdition GitHub project folder:



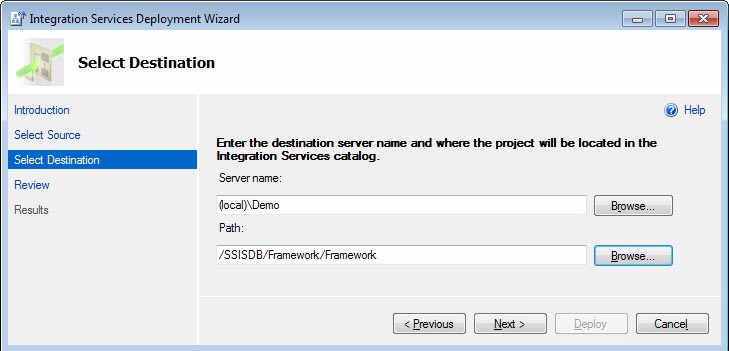
Deploy the projects to the SSIS Catalog hosted on your SQL Server instance:

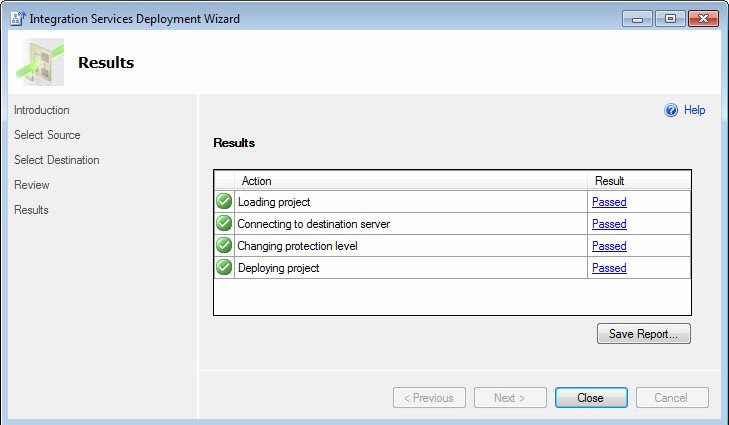


To align the deployments with the SSIS Framework Community Edition metadata you deployed by executing the T-SQL scripts, deploy the Framework project to an SSIS Catalog Folder named “Framework”:

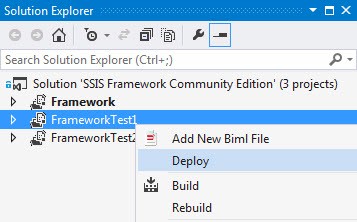


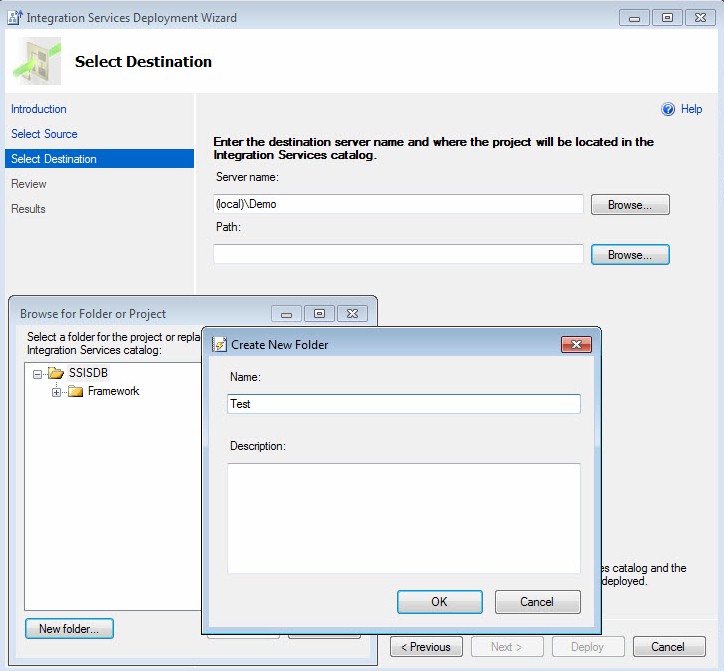
Follow the steps of the Integration Services Deployment Wizard until the Framework SSIS project is deployed:

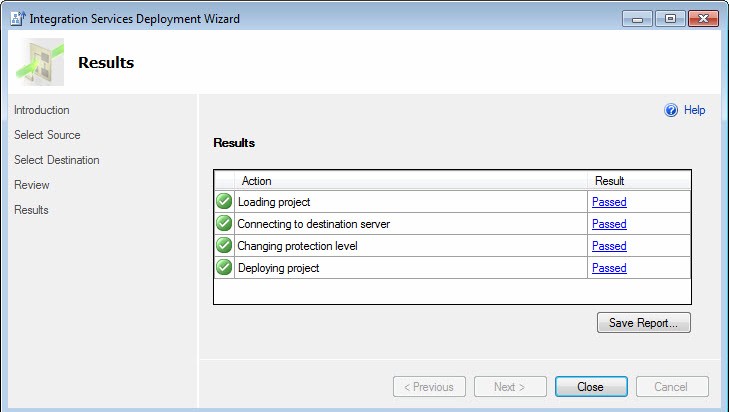




Once the Framework SSIS project is deployed, deploy the FrameworkTest1 and FrameworkTest2 SSIS projects. To align the deployments with the SSIS Framework Community Edition metadata you deployed by executing the T-SQL scripts, deploy the Framework project to an SSIS Catalog Folder named “Test”:



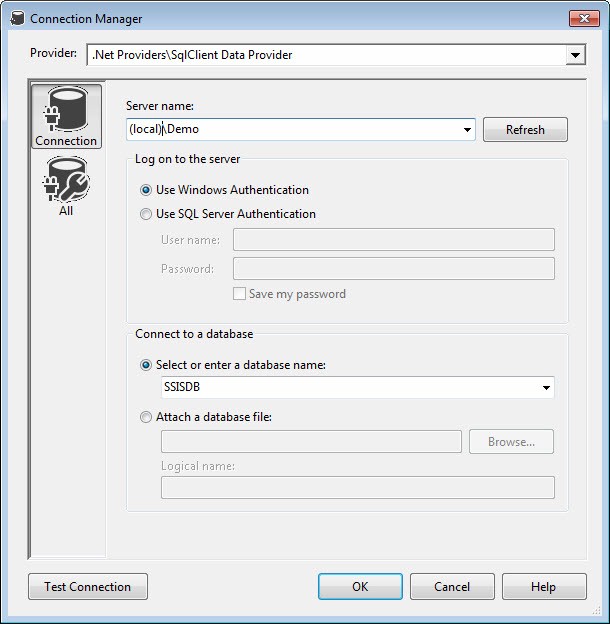




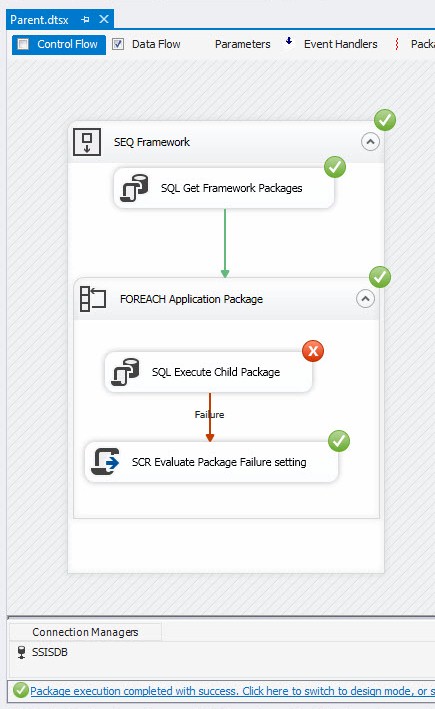
# Test

To test the deployment, execute the Parent.dtsx package in the Framework SSIS project.

Your first test will likely fail, unless you first configure the SSISDB connection manager to connect to your instance of SQL Server:

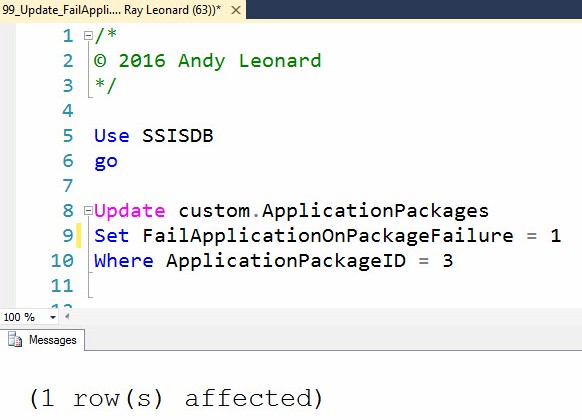


A successful test should appear as shown here:

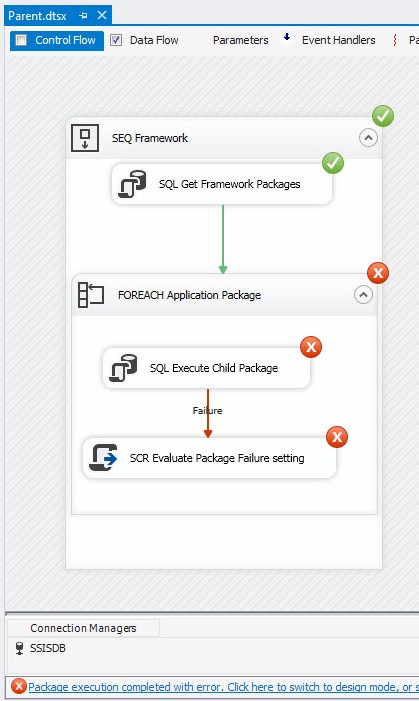


Wait. The execution failed. Well, the execution of a single package failed, but that is the default configuration. Note the Parent package execution succeeded. Why? The FailApplicationonPackageFailure bit is configured to allow the package that failed to be fault tolerant.

To reconfigure the project, open the T-SQL script named 99\_Update\_FailApplicationOnPackageFailure.sql. If you change the script, you can have a failure of the one package to cause the application to fail:



A second test execution results in a failed execution, as shown here:



# Conclusion

This guide is intended to help you get started using the SSIS Framework Community Edition.

Please share questions and concerns with Andy Leonard at [andy.leonard@andyleonardconsulting.com](mailto:andy.leonard@andyleonardconsulting.com).

Enjoy!

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# Appendix A - GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007

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Version 3, 29 June 2007

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To "modify" a work means to copy from or adapt all or part of the work

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earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based

on the Program.

To "propagate" a work means to do anything with it that, without

permission, would make you directly or secondarily liable for

infringement under applicable copyright law, except executing it on a

computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the

public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other

parties to make or receive copies. Mere interaction with a user through

a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"

to the extent that it includes a convenient and prominently visible

feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the

extent that warranties are provided), that licensees may convey the

work under this License, and how to view a copy of this License. If

the interface presents a list of user commands or options, such as a

menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work

for making modifications to it. "Object code" means any non-source

form of a work.

A "Standard Interface" means an interface that either is an official

standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that

is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other

than the work as a whole, that (a) is included in the normal form of

packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that

Major Component, or to implement a Standard Interface for which an

implementation is available to the public in source code form. A

"Major Component", in this context, means a major essential component

(kernel, window system, and so on) of the specific operating system

(if any) on which the executable work runs, or a compiler used to

produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable

work) run the object code and to modify the work, including scripts to

control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free

programs which are used unmodified in performing those activities but

which are not part of the work. For example, Corresponding Source

includes interface definition files associated with source files for

the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require,

such as by intimate data communication or control flow between those

subprograms and other parts of the work.

The Corresponding Source need not include anything that users

can regenerate automatically from other parts of the Corresponding

Source.

The Corresponding Source for a work in source code form is that

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You may convey a work based on the Program, or the modifications to

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terms of section 4, provided that you also meet all of these conditions:

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b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section

7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this

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additional terms, to the whole of the work, and all its parts,

regardless of how they are packaged. This License gives no

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invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display

Appropriate Legal Notices; however, if the Program has interactive

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A compilation of a covered work with other separate and independent

works, which are not by their nature extensions of the covered work,

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in or on a volume of a storage or distribution medium, is called an

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in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms

of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License,

in one of these ways:

a) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by the

Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by a

written offer, valid for at least three years and valid for as

long as you offer spare parts or customer support for that product

model, to give anyone who possesses the object code either (1) a

copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical

medium customarily used for software interchange, for a price no

more than your reasonable cost of physically performing this

conveying of source, or (2) access to copy the

Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the

written offer to provide the Corresponding Source. This

alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord

with subsection 6b.

d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the

Corresponding Source in the same way through the same place at no

further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to

copy the object code is a network server, the Corresponding Source

may be on a different server (operated by you or a third party)

that supports equivalent copying facilities, provided you maintain

clear directions next to the object code saying where to find the

Corresponding Source. Regardless of what server hosts the

Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding

Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded

from the Corresponding Source as a System Library, need not be

included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any

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the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,

procedures, authorization keys, or other information required to install

and execute modified versions of a covered work in that User Product from

a modified version of its Corresponding Source. The information must

suffice to ensure that the continued functioning of the modified object

code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or

specifically for use in, a User Product, and the conveying occurs as

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User Product is transferred to the recipient in perpetuity or for a

fixed term (regardless of how the transaction is characterized), the

Corresponding Source conveyed under this section must be accompanied

by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install

modified object code on the User Product (for example, the work has

been installed in ROM).

The requirement to provide Installation Information does not include a

requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for

the User Product in which it has been modified or installed. Access to a

network may be denied when the modification itself materially and

adversely affects the operation of the network or violates the rules and

protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,

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