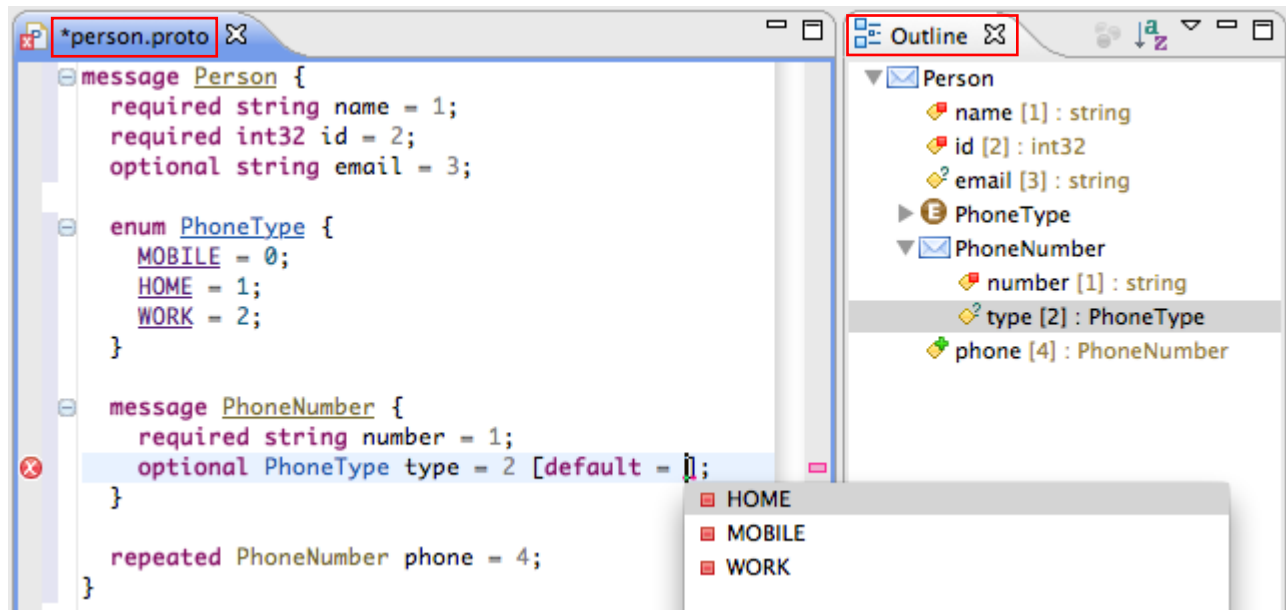


# Protocol Buffers Development Tools

protobuf-dt is an Eclipse plug-in that provides support for [Protocol Buffers](#) (protobuf.)



## News

- 10/29/2012: protobuf-dt v1.3.3 released. More details can be found [here](#). This version includes bug fixes and performance improvements.

## Features

- [Syntax highlighting](#)
- [Content-assist](#) based on syntax, context and data types
- [Automatic generation of numeric tags "as you type"](#)
- ['Outline View'](#) linked to editor
- ["Open Declaration" \(hyperlinking\) support, including imported .proto files](#)
- [Content-assist for built-in and custom options](#)
- [Javadoc-like documentation](#)
- [Configurable integration with protoc](#)
- [Automatic removal of trailing whitespace](#)
- [Spell checking](#)

## See Also

- [Releases](#)
- [Installing the plug-in](#)
- [Configuring import paths](#)
- [Getting the source code](#)

This plug-in requires [Eclipse 3.7](#) (Indigo) and [Xtext 2.3.0](#).

## IntegrationWithProtoc

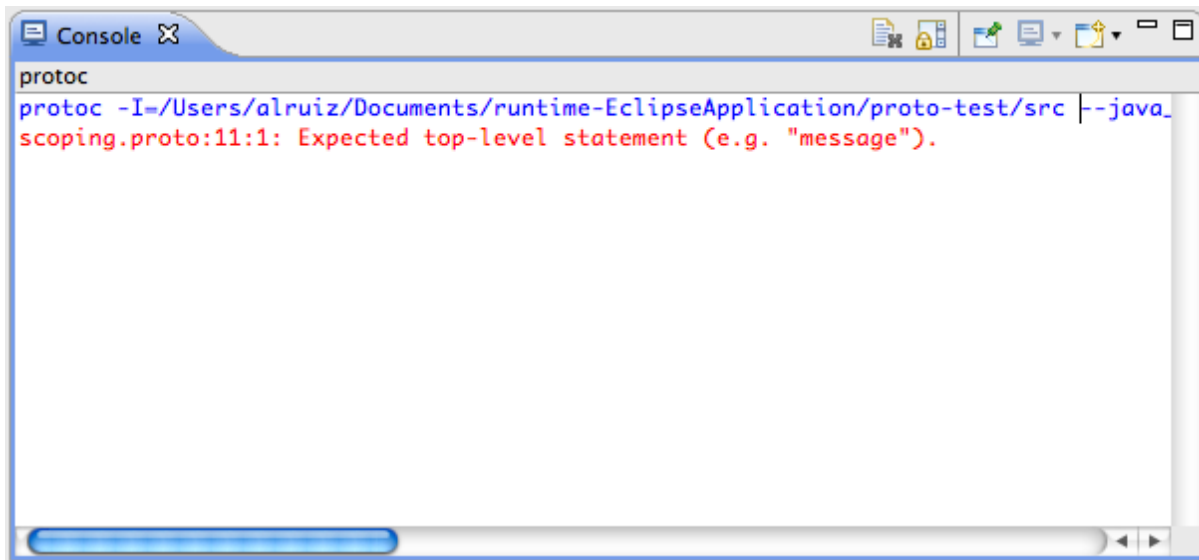
Updated Jan 24, 2012 by [alr...@google.com](mailto:alr...@google.com)

protobuf-dt provides integration with protoc, protobuf's compiler, to compile the .proto file being currently edited and generate Java, C++ or Python code from such file. protobuf-dt creates error markers in the editor if protoc finds any errors.

Integration with protoc is disabled by default.

### New in v1.2.0!

If integration with protoc is enabled, the output of protoc will be shown in Eclipse's console:



## Configuring protoc integration

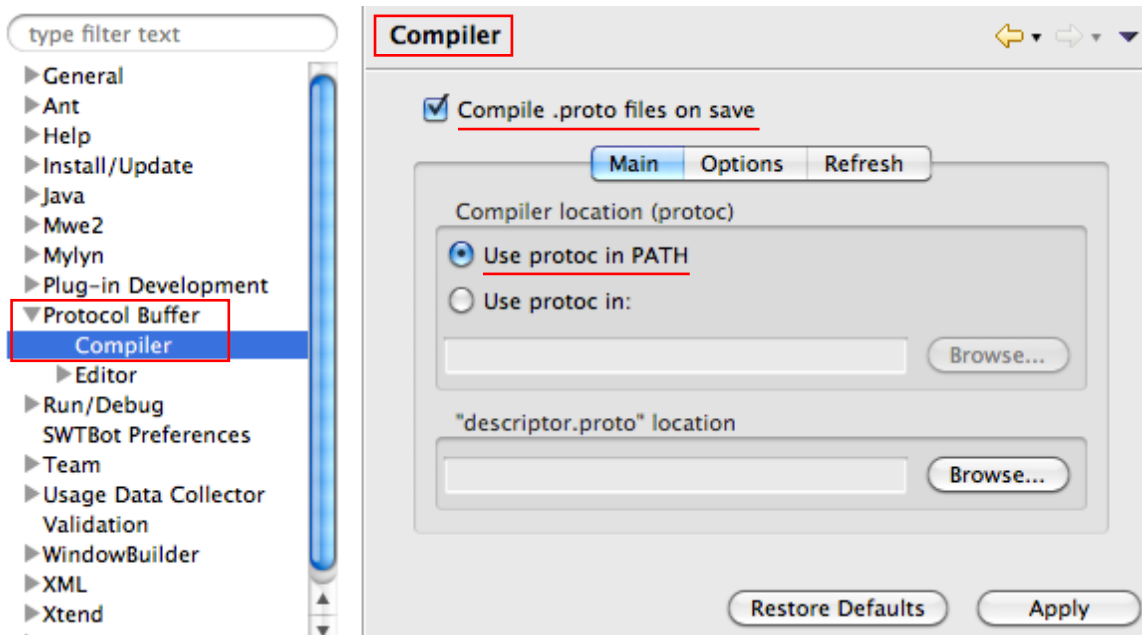
protoc integration can be configured at the workspace level or project level. Both types of configuration offer exactly the same options.

Before integrating protobuf-dt with protoc, you'll need to download and install the latest [protobuf distribution](#).

### Workspace preferences

To configure workspace-level protoc integration, go to the menu "Window" > "Preferences." In the "Preferences" dialog, open the "Protocol Buffer" element on the tree view on the left-hand side and select "Compiler."

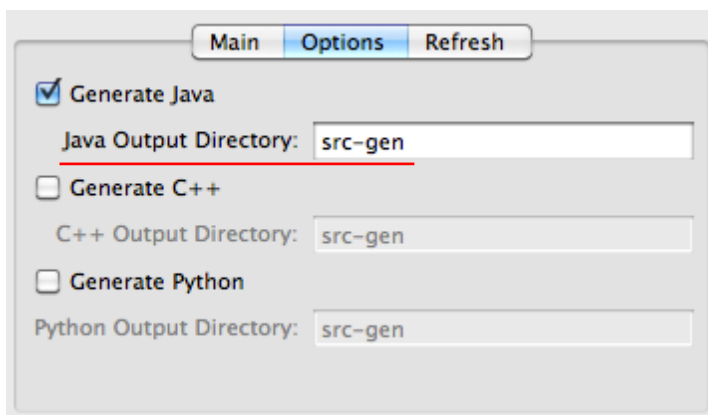
#### 1. Main Tab



In this tab, you can

1. compile a .proto file (with protoc,) every time it is saved
2. specify the path of protoc
3. specify the path of the descriptor.proto file to use when compiling .proto files (optional)

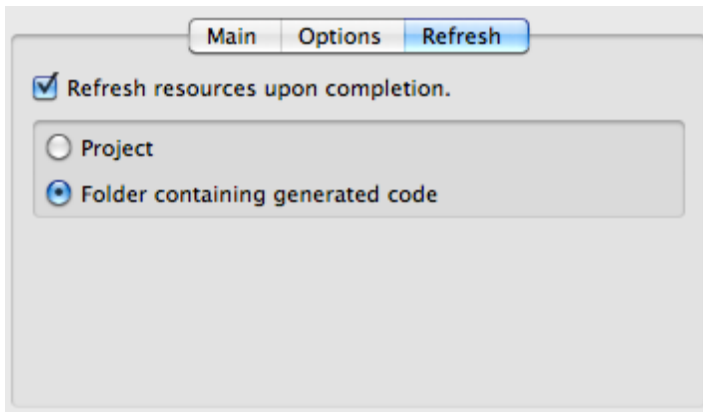
## 2. Options Tab



In this tab, you can

1. specify the target language for code generation
2. specify the folder where to store the generated code

## 3. Refresh Tab



In this tab, you can specify whether resources should be refreshed after invoking protoc.

## Project preferences

To configure project-specific protoc integration, simply right-click and project and select "Properties" from the pop-up menu. Project-level preferences are exactly the same as workspace-level ones.

## Note

By default, the option "Compile .proto files on save" is disabled in both workspace and project preferences.