# RTX8200 Configuration File

The purpose of this document is to provide example of how-to generate a configuration binary file in google protocol buffer format.

Google Protocol Buffer (protobuf) are a Google standard for serialize structured data both language and platform neutral. In other words, it supports multiple programming languages.

Reference: <https://developers.google.com/protocol-buffers/>

## Description

RTX8200 uses protobuf v3.

RTX delivers .proto files, which needs to be compiled with protobuf compiler in order to get stub interfaces for the supported configurations.

## Example

In below example we use Python 3.

1. Download protoc compiler

Reference: <https://github.com/protocolbuffers/protobuf/releases/tag/v3.7.1>

1. Compile .proto files

protoc --python\_out=. ..\rtx8200.proto

protoc --python\_out=. ..\wrappers.proto

1. Implement rtx8200.py to set configuration parameters

See example code in rtx8200\_configuration\_example.py

1. Generate configuration file   
   python rtx8200.py > configuration.bin
2. configuration.bin can be pushed to configuration server with IPEI and revision number provided

<?xml version=**"1.0"** encoding=**"utf-8"**?>

<configs>

<devices>

<device type=**"rtx8200"** ipei=**"*IPEI*"** revision=**"*Revision*"**>

<data encoding=**"base64"**>***Base64 encoded configuration file***</data>

</device>

</devices>

</configs>

Reference: [Customer\_Document\_RTX8200\_Configuration.docx](https://rtx1-loc.sharepoint.com/:w:/r/sites/rtxbcdoc/_layouts/15/Doc.aspx?sourcedoc=%7B7CC70202-188D-4660-8B17-96B8C7DE7AF5%7D&file=Customer_Document_RTX8200_Configuration.docx&action=default&mobileredirect=true)