



FAQ • 02/2017

# How to use a project file with an out of date firmware with actual firmware version

SINAMICS V90



<https://support.industry.siemens.com/cs/ww/en/view/109745062>

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# 1 Introduction

## 1.1 Preliminary remark

In a lot cases, the firmware in saved project file is different to the drive at customer site; for example, V1.05 in the project but V1.06 in the drive. When you try to go online with the save project file to make same parameter configurations into the drive, there is an error message reported.

This frequently asked question (FAQ) will show you how to handle this problem.

## 1.2 SINAMICS V-ASSISTANT

**NOTE** The latest version of SINAMICS V-ASSISTANT can be downloaded from the link below:

<https://support.industry.siemens.com/cs/ww/en/view/109738387>

Currently SINAMICS V-ASSISTANT cannot support the operating system of Windows 8 and Windows 10.

SINAMICS V-ASSISTANT engineering tool is designed for faster commissioning and diagnostics for SINAMICS V90 drive. The software runs on a personal computer with Windows operating systems and utilizes graphical user interface to interact with users and communicates with V90 drive via USB. It can be used to modify parameters and monitor status of SINAMICS V90 drive.



## 2 How to use a project file with an out of date firmware with actual firmware version

### 2.1 Issue Description

The SINAMICS V90 firmware versions and corresponding V-ASSISTANT versions are as follows:

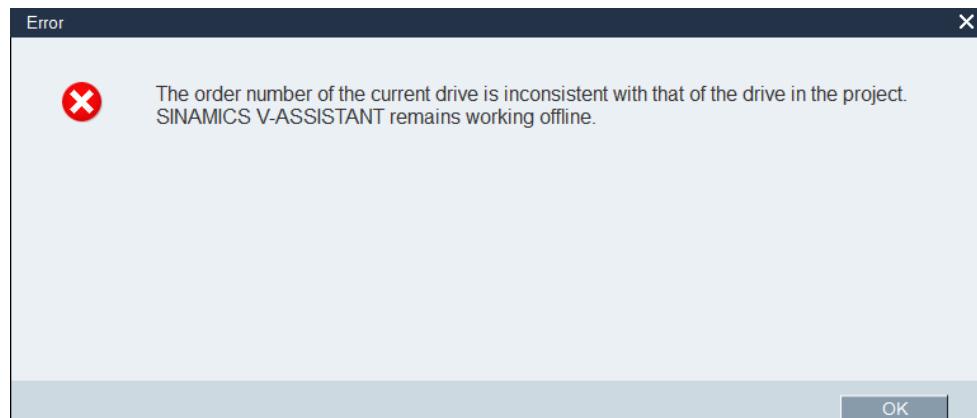
Table 2-1

SINAMICS V 90 Firmware Version	Least Required V-ASSISTANT Version
PTI V10400	V1.01.00
PTI V10500	V1.02.00
PTI V10600	V1.03.00
PTI V10600, PN V10000	V1.04.00
PTI V10700, PN V10002	V1.05.00

**NOTE** The latest V-ASSISTANT version is compatible with all the previous versions.

For example, the firmware version in SINAMICS V90 currently is V10600 but the V-ASSISTANT project file has been saved with the firmware version of V10500. If you have updated V-ASSISTANT to V1.03.00 and open the project file, there will be an error message when you are trying to go online for integrating drive parameterizations into current drive:

Figure 2-1



## 2.2 Solution

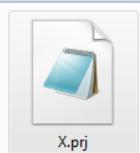
**NOTICE****Data lost!**

Please make a backup of your project file in case that there is a failure for following operations, which may result in data lost.

To solve above-mentioned problem, you can proceed as followings:

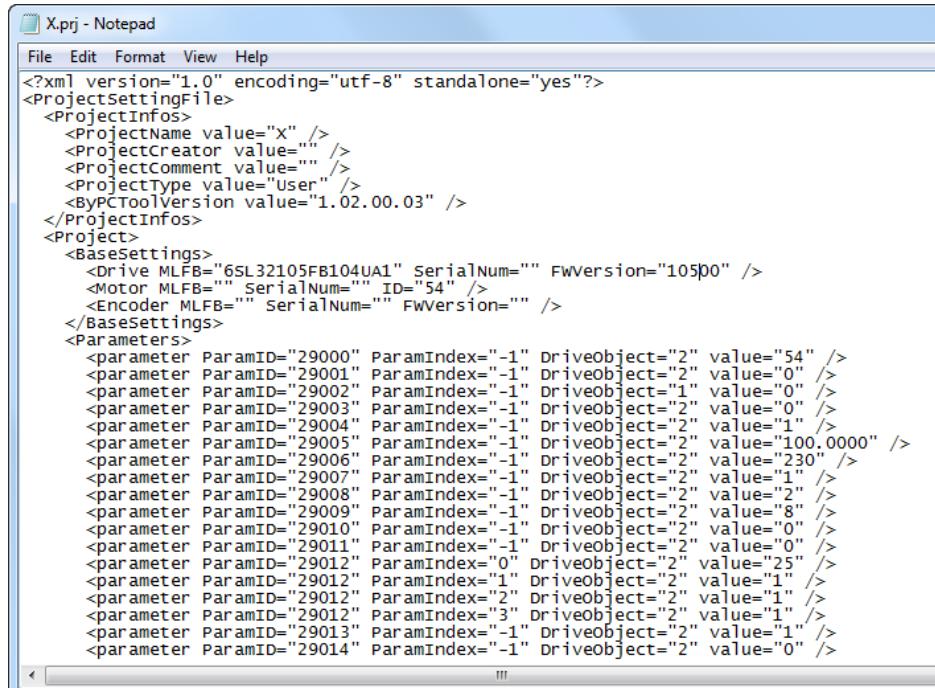
1. Find the saved project file (for example, X.prj):

Figure 2-2



2. Right-click the project file and open it with Notepad:

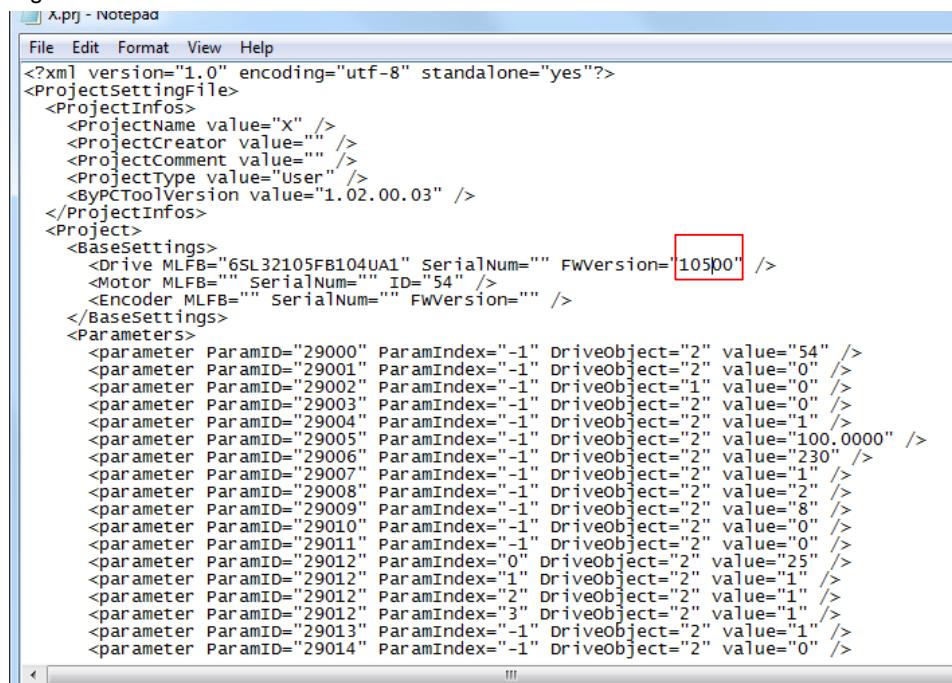
Figure 2-3



```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ProjectSettingFile>
  <ProjectInfos>
    <ProjectName value="X" />
    <ProjectCreator value="" />
    <ProjectComment value="" />
    <ProjectType value="User" />
    <ByPCToolversion value="1.02.00.03" />
  </ProjectInfos>
  <Project>
    <BaseSettings>
      <Drive MLFB="65L32105FB104UA1" SerialNum="" FwVersion="10500" />
      <Motor MLFB="" SerialNum="" ID="54" />
      <Encoder MLFB="" SerialNum="" FwVersion="" />
    </BaseSettings>
    <Parameters>
      <parameter ParamID="29000" ParamIndex="-1" DriveObject="2" value="54" />
      <parameter ParamID="29001" ParamIndex="-1" DriveObject="2" value="0" />
      <parameter ParamID="29002" ParamIndex="-1" DriveObject="1" value="0" />
      <parameter ParamID="29003" ParamIndex="-1" DriveObject="2" value="0" />
      <parameter ParamID="29004" ParamIndex="-1" DriveObject="2" value="1" />
      <parameter ParamID="29005" ParamIndex="-1" DriveObject="2" value="100,0000" />
      <parameter ParamID="29006" ParamIndex="-1" DriveObject="2" value="230" />
      <parameter ParamID="29007" ParamIndex="-1" DriveObject="2" value="1" />
      <parameter ParamID="29008" ParamIndex="-1" DriveObject="2" value="2" />
      <parameter ParamID="29009" ParamIndex="-1" DriveObject="2" value="8" />
      <parameter ParamID="29010" ParamIndex="-1" DriveObject="2" value="0" />
      <parameter ParamID="29011" ParamIndex="-1" DriveObject="2" value="0" />
      <parameter ParamID="29012" ParamIndex="0" DriveObject="2" value="25" />
      <parameter ParamID="29012" ParamIndex="1" DriveObject="2" value="1" />
      <parameter ParamID="29012" ParamIndex="2" DriveObject="2" value="1" />
      <parameter ParamID="29012" ParamIndex="3" DriveObject="2" value="1" />
      <parameter ParamID="29013" ParamIndex="-1" DriveObject="2" value="1" />
      <parameter ParamID="29014" ParamIndex="-1" DriveObject="2" value="0" />
    </Parameters>
  </Project>
</ProjectSettingFile>
```

3. Currently the firmware value in the project file is “10500”:

Figure 2-4



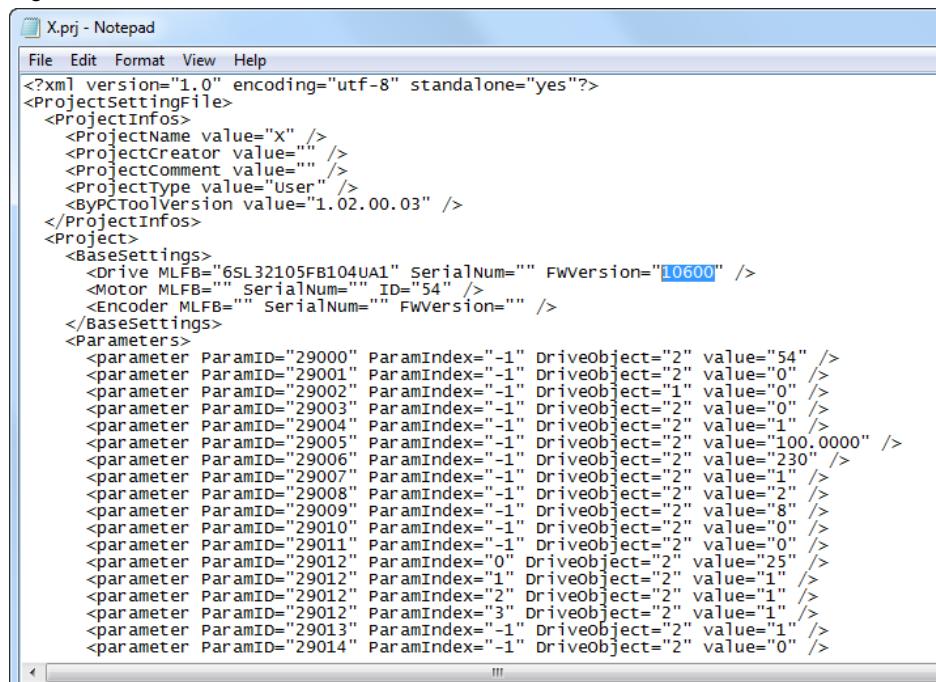
```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ProjectSettingFile>
  <ProjectInfos>
    <ProjectName value="X" />
    <ProjectCreator value="" />
    <ProjectComment value="" />
    <ProjectType value="User" />
    <ByPCToolVersion value="1.02.00.03" />
  </ProjectInfos>
  <Project>
    <BaseSettings>
      <Drive MLFB="6SL32105FB104UA1" SerialNum="" FwVersion="10500" />
      <Motor MLFB="" SerialNum="" ID="54" />
      <Encoder MLFB="" SerialNum="" FwVersion="" />
    </BaseSettings>
    <Parameters>
      <parameter ParamID="29000" ParamIndex="-1" Driveobject="2" value="54" />
      <parameter ParamID="29001" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29002" ParamIndex="-1" Driveobject="1" value="0" />
      <parameter ParamID="29003" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29004" ParamIndex="-1" Driveobject="2" value="1" />
      <parameter ParamID="29005" ParamIndex="-1" Driveobject="2" value="100.0000" />
      <parameter ParamID="29006" ParamIndex="-1" Driveobject="2" value="230" />
      <parameter ParamID="29007" ParamIndex="-1" Driveobject="2" value="1" />
      <parameter ParamID="29008" ParamIndex="-1" Driveobject="2" value="2" />
      <parameter ParamID="29009" ParamIndex="-1" Driveobject="2" value="8" />
      <parameter ParamID="29010" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29011" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29012" ParamIndex="0" Driveobject="2" value="25" />
      <parameter ParamID="29012" ParamIndex="1" Driveobject="2" value="1" />
      <parameter ParamID="29012" ParamIndex="2" Driveobject="2" value="1" />
      <parameter ParamID="29012" ParamIndex="3" Driveobject="2" value="1" />
      <parameter ParamID="29013" ParamIndex="-1" Driveobject="2" value="1" />
      <parameter ParamID="29014" ParamIndex="-1" Driveobject="2" value="0" />
    </Parameters>
  </Project>
</ProjectSettingFile>

```

4. You can change this value to “10600”:

Figure 2-5



```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ProjectSettingFile>
  <ProjectInfos>
    <ProjectName value="X" />
    <ProjectCreator value="" />
    <ProjectComment value="" />
    <ProjectType value="User" />
    <ByPCToolVersion value="1.02.00.03" />
  </ProjectInfos>
  <Project>
    <BaseSettings>
      <Drive MLFB="6SL32105FB104UA1" SerialNum="" FwVersion="10600" />
      <Motor MLFB="" SerialNum="" ID="54" />
      <Encoder MLFB="" SerialNum="" FwVersion="" />
    </BaseSettings>
    <Parameters>
      <parameter ParamID="29000" ParamIndex="-1" Driveobject="2" value="54" />
      <parameter ParamID="29001" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29002" ParamIndex="-1" Driveobject="1" value="0" />
      <parameter ParamID="29003" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29004" ParamIndex="-1" Driveobject="2" value="1" />
      <parameter ParamID="29005" ParamIndex="-1" Driveobject="2" value="100.0000" />
      <parameter ParamID="29006" ParamIndex="-1" Driveobject="2" value="230" />
      <parameter ParamID="29007" ParamIndex="-1" Driveobject="2" value="1" />
      <parameter ParamID="29008" ParamIndex="-1" Driveobject="2" value="2" />
      <parameter ParamID="29009" ParamIndex="-1" Driveobject="2" value="8" />
      <parameter ParamID="29010" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29011" ParamIndex="-1" Driveobject="2" value="0" />
      <parameter ParamID="29012" ParamIndex="0" Driveobject="2" value="25" />
      <parameter ParamID="29012" ParamIndex="1" Driveobject="2" value="1" />
      <parameter ParamID="29012" ParamIndex="2" Driveobject="2" value="1" />
      <parameter ParamID="29012" ParamIndex="3" Driveobject="2" value="1" />
      <parameter ParamID="29013" ParamIndex="-1" Driveobject="2" value="1" />
      <parameter ParamID="29014" ParamIndex="-1" Driveobject="2" value="0" />
    </Parameters>
  </Project>
</ProjectSettingFile>

```

5. Go online again to connect SINAMICS V90 and it will work.

- When the connection finishes, there will be a dialog box popping-up:

Figure 2-6

Parameter	Value in project	Value in drive
p29000	18	26
p29011	1	0
p29013	2	1
p1120	2.000	1.000
p408	2048	2500
p423	8192	0

Drive to PC      PC to drive

- Click the button “**PC to drive**” to finish the data synchronization from the project file to current drive.

## 3 Contact

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## 4 History

Table 7-1

Version	Date	Modifications
V0.1	08/2016	First version