RF PLC - User story #2552

Migration of present RF PLC code from step 7 classic to TIA Portal

08.04.2025 09:18 - Angela Salom

Status:	New	**Start date:**	15.04.2025
Priority:	Normal	**Due date:**	05.05.2025
Assignee:	Iago Dapena	**% Done:**	0%
Category:		**Estimated time:**	16.00 hours
Target version:	Architecture definition V1.0	**Spent time:**	1.00 hour
Git branch (link):		**SVN commit (link/?p=rev):**	
Git merge to develop (link):			

Description

Related issues:			
follows User story #2551: Check code in PLC and compare it with gitlab code	**Closed**	**08.04.2025**	**14.04.2025**

History

#1 - 08.04.2025 09:18 - Angela Salom

- follows User story #2551: Check code in PLC and compare it with gitlab code added

- Start date changed from 08.04.2025 to 15.04.2025

- Due date changed from 28.04.2025 to 05.05.2025

#2 - 08.04.2025 13:11 - Iago Dapena

- Assignee changed from Iago Dapena to Angela Salom

Do we have a prefered TIA Portal version or are we free to use any of the latest releases?

Alfonso suggested to use the v20, which is the latest, but I currently do not have license for this one. I do, however, have license for v19.

#3 - 09.04.2025 17:15 - Alfonso Ros

There is no preferred version of TIA Portal. If you have a V19 license, you can use it. In the future, migrating to the next version will be very easy.

#4 - 09.04.2025 18:54 - Alfonso Ros

- File Report of migration PLC code to TIA PORTAL_V19.docx added

- File RFM-CS_V00_20250409_1834.zap19 added

- File Rfm-cs_StartMigration.zip added

The PLC program has been successfully migrated from Step 7 Classic to TIA Portal V19 as part of the modernization and system standardization process. This migration facilitates future updates and ensures compatibility with newer Siemens tools and platforms.

Please find attached the following files for your review:

1.- "Rfm-cs_StartMigration.zip". This archive contains the original project in Step 7 Classic format. It has been prepared specifically for migration to TIA Portal V19, with all necessary configurations included.

2.- "RFM-CS_V0020250409_1834.zap19". This file is the migrated version of the project, now fully functional in TIA Portal V19. It includes all hardware configurations, networks, and logic converted and adapted to the new environment.

3.- Migration Report: A comprehensive document outlining the steps taken during the migration process. It includes details on the issues encountered (e.g., warning messages), the changes applied to resolve them, and any adjustments made to the program to ensure optimal performance in TIA Portal.

Alfonso Ros

#5 - 10.04.2025 10:05 - Alfonso Ros

The current internal firmware version of the CPU 317-2 PN/DP (6ES7 317-2EK14-0AB0) is version 3.2.

Before proceeding with the migration of the automation project to TIA Portal V19, it is necessary to update the CPU's internal firmware to version 3.2.19. This firmware upgrade is a prerequisite to ensure compatibility with the features and requirements of the newer Siemens software program "TIA PORTAL".

The step-by-step procedure for performing the firmware upgrade is available on the official Siemens support website [[https://support.industry.siemens.com/cs/document/40362228/firmware-updates-for-cpu-317-2-pn-dp-(6es7317-2ek14-0ab0)?dti=0&lc=en-ES]] with Entry ID: 40362228.

A.

#6 - 14.04.2025 10:08 - Angela Salom

- Assignee changed from Angela Salom to Iago Dapena

#7 - 14.04.2025 12:39 - Iago Dapena

- File s7_connections_after.png added

- File s7_connections_before.png added

Reviewing the PLC SW already migrated to TIA Portal v19 I have seen a minor error with connection names.
I have renamed them to avoid errors.

Files

Rfm-cs_StartMigration.zip	1.82 MB	09.04.2025	Alfonso Ros
RFM-CS_V00_20250409_1834.zap19	1.36 MB	09.04.2025	Alfonso Ros
Report of migration PLC code to TIA PORTAL_V19.docx	308 KB	09.04.2025	Alfonso Ros
s7_connections_before.png	20.2 KB	14.04.2025	Iago Dapena
s7_connections_after.png	15.1 KB	14.04.2025	Iago Dapena