

TIA 编程软件

一、描述

TIA 博途采用此新型、统一软件框架，可在同一开发环境中组态西门子的所有可编程控制器、人机界面和驱动装置。在控制器、驱动装置和人机界面之间建立通信时的共享任务，可大大降低连接和组态成本。例如，用户可方便地将变量从可编程控制器拖放到人机界面设备的画面中。然后在人机界面内即时分配变量，并在后台自动建立控制器与人机界面的连接，无需手动组态。

二、支持语言

三、兼容表

2.1 TIA V11 兼容表

			STEP 7 Professional (TIA Portal) (Product family: Automation software)		
			V11.0 SP2	V11.0 SP1	V11.0
Product families:					
Operating systems					
	Microsoft Windows 7	Ultimate (64-Bit) SP1	√		
		Ultimate (32-Bit) SP1	√	√	
		Ultimate (32-Bit)	√	√	√
		Professional (64-Bit) SP1	√		
		Professional (64-Bit)	√		
		Professional (32-Bit) SP1	√	√	
		Professional (32-Bit)	√	√	√
		Enterprise (64-Bit) SP1	√		
		Enterprise (64-Bit)	√		
		Enterprise (32-Bit) SP1	√	√	
		Enterprise (32-Bit)	√	√	√
	Microsoft Windows Server	2008 Standard Edition (32-Bit) SP2	√	√	√
		2008 R2 Standard Edition (64-Bit) SP1	√		
		2008 R2 Standard Edition (64-Bit)	√		
		2003 Standard Edition (32-Bit) SP2	√	√	√
		2003 R2 Standard Edition (32-Bit) SP2	√	√	√
	Microsoft Windows XP	Professional (32-Bit) SP3	√	√	√

2.2 TIA V12 兼容表

			V12.0 SP1	V12.0 ⁹⁾
Product families:				
Operating systems				
	Microsoft Windows 7	Ultimate (64-Bit) SP1	√	√
		Ultimate (64-Bit)		√
		Ultimate (32-Bit) SP1	√	√
		Ultimate (32-Bit)		√
		Professional (64-Bit) SP1	√	√
		Professional (64-Bit)		√
		Professional (32-Bit) SP1	√	√
		Professional (32-Bit)		√
		Enterprise (64-Bit) SP1	√	√
		Enterprise (64-Bit)		√
		Enterprise (32-Bit) SP1	√	√
		Enterprise (32-Bit)		√
	Microsoft Windows Server	2008 Standard Edition (32-Bit) SP2	√	√
		2008 R2 Standard Edition (64-Bit) SP1		√
		2008 R2 Standard Edition (64-Bit)		√
		2003 R2 Standard Edition (32-Bit) SP2	√	√
	Microsoft Windows XP	Professional (32-Bit) SP3	√	√

2.3 TIA V13 兼容表

Product families:			V13.0 SP2	V13.0 SP1	V13.0
Operating systems					
Microsoft Windows 7	Ultimate (64-Bit) SP1		√	√	√
	Ultimate (32-Bit) SP1		√	√	√
Microsoft Windows 8.1	Professional (64-Bit) SP1		√	√	√
	Enterprise (64-Bit) SP1		√	√	√
Microsoft Windows 10	Pro (64-Bit)		√ ¹⁾	√	√
	Enterprise (64-Bit)		√ ¹⁾	√	√
Microsoft Windows Server	Pro Version 22H2 (64-Bit) ²⁾		√		
	Pro Version 21H2 (64-Bit) ²⁾		√		
Microsoft Windows Server	Pro Version 21H1 (64-Bit) ²⁾		√		
	Pro Version 1909 (64-Bit) ³⁾		√		
Microsoft Windows Server	Pro Version 1809 (64-Bit) ³⁾		√		
	Pro Version 1803 (64-Bit) ³⁾		√		
Microsoft Windows Server	Pro Version 1607 (64-Bit)		√		
	Enterprise Version 22H2 (64-Bit) ²⁾		√		
Microsoft Windows Server	Enterprise Version 21H2 (64-Bit) ²⁾		√		
	Enterprise Version 21H1 (64-Bit) ²⁾		√		
Microsoft Windows Server	Enterprise Version 1909 (64-Bit) ³⁾		√		
	Enterprise Version 1809 (64-Bit) ³⁾		√		
Microsoft Windows Server	Enterprise Version 1803 (64-Bit) ³⁾		√		
	Enterprise Version 1607 (64-Bit)		√		
Microsoft Windows Server	Enterprise LTSC 2019 Version 1809 (64-Bit) ¹⁾		√		
	Enterprise LTSC 2016 Version 1607 (64-Bit)		√		
Microsoft Windows Server	Enterprise LTSC 2015 Version 1507 (64-Bit) ¹⁾		√		
	2019 Standard Version 2004 (64-Bit) ²⁾		√		
Microsoft Windows Server	2016 Standard Version 1809 (64-Bit) ³⁾		√		
	2016 Standard Version 1803 (64-Bit) ³⁾		√		
Microsoft Windows Server	2016 Standard (64-Bit)		√		
	2012 R2 Standard Edition (64-Bit)		√ ¹⁾	√	√
Microsoft Windows Server	2008 R2 Standard Edition (64-Bit) SP1		√ ¹⁾	√	√

2.4 TIA V14 兼容表

Product families:			V14.0 SP1	V14.0
Operating systems				
Microsoft Windows 7	Ultimate (64-Bit) SP1		√	√
	Professional (64-Bit) SP1		√	√
Microsoft Windows 8.1	Enterprise (64-Bit) SP1		√	√
	Pro (64-Bit)		√ ¹⁾	√
Microsoft Windows 10	Enterprise (64-Bit)		√ ¹⁾	√
	Pro Version 22H2 (64-Bit) ²⁾		√	
Microsoft Windows 10	Pro Version 21H2 (64-Bit) ²⁾		√	
	Pro Version 21H1 (64-Bit) ²⁾		√	
Microsoft Windows 10	Pro Version 20H2 (64-Bit) ²⁾		√	
	Pro Version 2004 (64-Bit) ²⁾		√	
Microsoft Windows 10	Pro Version 1909 (64-Bit) ²⁾		√	
	Pro Version 1903 (64-Bit) ²⁾		√	
Microsoft Windows 10	Pro Version 1809 (64-Bit) ³⁾		√	
	Pro Version 1803 (64-Bit) ³⁾		√	
Microsoft Windows 10	Pro Version 1607 (64-Bit)		√	
	Enterprise Version 20H2 (64-Bit) ²⁾		√	
Microsoft Windows 10	Enterprise Version 2004 (64-Bit) ²⁾		√	
	Enterprise Version 1909 (64-Bit) ²⁾		√	
Microsoft Windows 10	Enterprise Version 1903 (64-Bit) ²⁾		√	
	Enterprise Version 1809 (64-Bit) ³⁾		√	
Microsoft Windows 10	Enterprise Version 1803 (64-Bit) ³⁾		√	
	Enterprise Version 1607 (64-Bit)		√	
Microsoft Windows 10	Enterprise LTSC 2019 Version 1809 (64-Bit) ³⁾		√	
	Enterprise LTSC 2016 Version 1607 (64-Bit)		√	
Microsoft Windows 10	Enterprise LTSC 2015 Version 1507 (64-Bit) ¹⁾		√	
	2019 Standard Version 20H2 (64-Bit) ²⁾		√	
Microsoft Windows 10	2019 Standard Version 2004 (64-Bit) ²⁾		√	
	2016 Standard Version 1809 (64-Bit) ³⁾		√	
Microsoft Windows 10	2016 Standard Version 1803 (64-Bit) ³⁾		√	
	2016 Standard (64-Bit)		√	
Microsoft Windows 10	2012 R2 Standard Edition (64-Bit)		√ ¹⁾	√
	2008 R2 Standard Edition (64-Bit) SP1		√ ¹⁾	√

2.5 TIA V15 兼容表

Product families:		STEP 7 Professional (TIA Portal) (Product family: Automation software)	
Operating systems		V15.0	
	Microsoft Windows 7	Ultimate (64-Bit) SP1	√
		Professional (64-Bit) SP1	√
		Enterprise (64-Bit) SP1	√
	Microsoft Windows 10	Pro Version 1809 (64-Bit) ¹⁾	√
		Pro Version 1803 (64-Bit) ¹⁾	√
		Pro Version 1703 (64-Bit)	√
		Enterprise Version 1809 (64-Bit) ¹⁾	√
		Enterprise Version 1803 (64-Bit) ¹⁾	√
		Enterprise Version 1703 (64-Bit)	√
		Enterprise LTSC 2019 Version 1809 (64-Bit) ¹⁾	√
		Enterprise LTSC 2016 Version 1607 (64-Bit)	√
		Enterprise LTSC 2015 Version 1507 (64-Bit)	√
	Microsoft Windows Server	2016 Standard Version 1809 (64-Bit) ¹⁾	√
		2016 Standard Version 1803 (64-Bit) ¹⁾	√
		2016 Standard (64-Bit)	√
		2012 R2 Standard Edition (64-Bit)	√

2.6 TIA V15.1 兼容表

Product families:		STEP 7 Professional (TIA Portal) (Product family: Automation software)	
Operating systems		V15.1	
	Microsoft Windows 10	Enterprise (64-Bit) SP1	√
		Pro Version 22H2 (64-Bit) ¹⁾	√
		Pro Version 21H2 (64-Bit) ¹⁾	√
		Pro Version 21H1 (64-Bit) ²⁾	√
		Pro Version 20H2 (64-Bit) ³⁾	√
		Pro Version 2004 (64-Bit) ³⁾	√
		Pro Version 1909 (64-Bit) ³⁾	√
		Pro Version 1903 (64-Bit) ³⁾	√
		Pro Version 1809 (64-Bit)	√
		Pro Version 1803 (64-Bit)	√
		Pro Version 1709 (64-Bit)	√
		Enterprise Version 22H2 (64-Bit) ¹⁾	√
		Enterprise Version 21H2 (64-Bit) ¹⁾	√
		Enterprise Version 21H1 (64-Bit) ²⁾	√
		Enterprise Version 20H2 (64-Bit) ³⁾	√
		Enterprise Version 2004 (64-Bit) ³⁾	√
		Enterprise Version 1909 (64-Bit) ³⁾	√
		Enterprise Version 1903 (64-Bit) ³⁾	√
		Enterprise Version 1809 (64-Bit)	√
		Enterprise Version 1803 (64-Bit)	√
		Enterprise Version 1709 (64-Bit)	√
	Enterprise LTSC 2021 Version 21H2 (64-Bit) ¹⁾	√	
	Enterprise LTSC 2019 Version 1809 (64-Bit)	√	
	Enterprise LTSC 2016 Version 1607 (64-Bit)	√	
	Enterprise LTSC 2015 Version 1507 (64-Bit)	√	
	Microsoft Windows 11	Pro Version 22H2 (64-Bit) ⁴⁾	√
		Pro Version 21H2 (64-Bit) ¹⁾	√
		Enterprise Version 22H2 (64-Bit) ⁴⁾	√
		Enterprise Version 21H2 (64-Bit) ¹⁾	√
	Microsoft Windows Server	2022 Standard Version 22H2 (64-Bit) ¹⁾	√
		2022 Standard Version 21H2 (64-Bit) ¹⁾	√
		2019 Standard Version 21H2 (64-Bit) ¹⁾	√
		2019 Standard Version 21H1 (64-Bit) ²⁾	√
		2019 Standard Version 20H2 (64-Bit) ³⁾	√
		2019 Standard Version 2004 (64-Bit) ³⁾	√
		2016 Standard Version 1809 (64-Bit)	√
		2016 Standard (64-Bit)	√
		2012 R2 Standard Edition (64-Bit)	√

2.7 TIA V16 兼容表

			STEP 7 Professional (TIA Portal) (Product family: Automation software)
Product families:			V16.0
Operating systems			
	Microsoft Windows 7	Ultimate (64-Bit) SP1	✓
		Professional (64-Bit) SP1	✓
		Enterprise (64-Bit) SP1	✓
	Microsoft Windows 10	Pro Version 22H2 (64-Bit) ¹⁾	✓
		Pro Version 21H2 (64-Bit) ¹⁾	✓
		Pro Version 21H1 (64-Bit) ²⁾	✓
		Pro Version 20H2 (64-Bit) ³⁾	✓
		Pro Version 2004 (64-Bit) ⁴⁾	✓
		Pro Version 1909 (64-Bit) ⁴⁾	✓
		Pro Version 1903 (64-Bit)	✓
		Pro Version 1809 (64-Bit)	✓
		Enterprise Version 22H2 (64-Bit) ¹⁾	✓
		Enterprise Version 21H2 (64-Bit) ¹⁾	✓
		Enterprise Version 21H1 (64-Bit) ²⁾	✓
		Enterprise Version 20H2 (64-Bit) ³⁾	✓
		Enterprise Version 2004 (64-Bit) ⁴⁾	✓
		Enterprise Version 1909 (64-Bit) ⁴⁾	✓
		Enterprise Version 1903 (64-Bit)	✓
		Enterprise Version 1809 (64-Bit)	✓
	Enterprise LTSC 2021 Version 21H2 (64-Bit) ¹⁾	✓	
	Enterprise LTSC 2019 Version 1809 (64-Bit)	✓	
	Enterprise LTSC 2016 Version 1607 (64-Bit)	✓	
	Enterprise LTSC 2015 Version 1507 (64-Bit)	✓	
	Microsoft Windows 11	Pro Version 22H2 (64-Bit) ⁵⁾	✓
		Pro Version 21H2 (64-Bit) ²⁾	✓
		Enterprise Version 22H2 (64-Bit) ⁵⁾	✓
	Microsoft Windows Server	Enterprise Version 21H2 (64-Bit) ²⁾	✓
		2022 Standard Version 22H2 (64-Bit) ⁵⁾	✓
		2022 Standard Version 21H2 (64-Bit) ²⁾	✓
		2019 Standard Version 21H2 (64-Bit) ¹⁾	✓
		2019 Standard Version 21H1 (64-Bit) ²⁾	✓
		2019 Standard Version 20H2 (64-Bit) ³⁾	✓
		2019 Standard Version 2004 (64-Bit) ⁴⁾	✓
		2019 Standard Edition (64-Bit)	✓
	2016 Standard (64-Bit)	✓	
	2012 R2 Standard Edition (64-Bit)	✓	

2.8 TIA V17 兼容表

			STEP 7 Professional (TIA Portal) (Product family: Automation software)
Product families:			V17.0
Operating systems			
	Microsoft Windows 10	Pro Version 22H2 (64-Bit) ¹⁾	✓
		Pro Version 21H2 (64-Bit) ²⁾	✓
		Pro Version 21H1 (64-Bit)	✓
		Pro Version 20H2 (64-Bit)	✓
		Pro Version 2004 (64-Bit)	✓
		Pro Version 1909 (64-Bit)	✓
		Enterprise Version 22H2 (64-Bit) ¹⁾	✓
		Enterprise Version 21H2 (64-Bit) ²⁾	✓
		Enterprise Version 21H1 (64-Bit)	✓
		Enterprise Version 20H2 (64-Bit)	✓
		Enterprise Version 2004 (64-Bit)	✓
		Enterprise Version 1909 (64-Bit)	✓
		Enterprise LTSC 2021 Version 21H2 (64-Bit) ²⁾	✓
		Enterprise LTSC 2019 Version 1809 (64-Bit)	✓
		Enterprise LTSC 2016 Version 1607 (64-Bit)	✓
		Microsoft Windows 11	Pro Version 22H2 (64-Bit) ¹⁾
	Pro Version 21H2 (64-Bit) ³⁾		✓
	Enterprise Version 22H2 (64-Bit) ¹⁾		✓
	Microsoft Windows Server	Enterprise Version 21H2 (64-Bit) ³⁾	✓
		2022 Standard Version 22H2 (64-Bit) ¹⁾	✓
		2022 Standard Version 21H2 (64-Bit) ⁴⁾	✓
		2019 Standard Version 21H2 (64-Bit) ²⁾	✓
		2019 Standard Version 21H1 (64-Bit)	✓
	2019 Standard Version 20H2 (64-Bit)	✓	
	2019 Standard Edition (64-Bit)	✓	
	2016 Standard (64-Bit)	✓	

2.9 TIA V18 兼容表

			STEP 7 Professional (TIA Portal) (Product family: Automation software)
Product families:			V18.0
Operating systems			
	Microsoft Windows 10	Pro Version 22H2 (64-Bit)	√
		Pro Version 21H2 (64-Bit)	√
		Pro Version 21H1 (64-Bit)	√
		Enterprise Version 22H2 (64-Bit)	√
		Enterprise Version 21H2 (64-Bit)	√
		Enterprise Version 21H1 (64-Bit)	√
		Enterprise Version 20H2 (64-Bit)	√
		Enterprise LTSC 2021 Version 21H2 (64-Bit)	√
		Enterprise LTSC 2019 Version 1809 (64-Bit)	√
		Enterprise LTSC 2016 Version 1607 (64-Bit)	√
	Microsoft Windows 11	Pro Version 22H2 (64-Bit)	√
		Pro Version 21H2 (64-Bit)	√
		Enterprise Version 22H2 (64-Bit)	√
		Enterprise Version 21H2 (64-Bit)	√
	Microsoft Windows Server	2022 Standard Version 22H2 (64-Bit)	√
		2022 Standard Version 21H2 (64-Bit)	√
		2019 Standard Version 21H2 (64-Bit)	√
		2019 Standard Version 21H1 (64-Bit)	√

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