ten-sys[®]

INtime[®] Distributed RTOS Licensing Appendix 7 with CID key Procedure INtime 7



Appendix 7 – USB/CID Key license installation

USB/CID key license installation consists of installing a license string or file using **Install license...** in the built-in web server interface or the **Licman** command in INshell. Each USB/CID key has a unique corresponding License String. Steps below go through the procedure.

Step by Step USB/CID Key license installation Example

Use this procedure to enter the License String.

Obtain the License String for the USB/CID key

License Card

Each USB/CID key is provided with a USB/CID specific URL in a QR code. Use this URL in a web browser to obtain the unique License String for that specific USB/CID key.



Figure 7.1 - USB/CID License Card

Operations Manager or Delegate User

Open a browser to <u>license.tenasys.com/qr</u> and Use the Username and Password of the Operations Manager or a Delegate User along with the USB/CID Deployment Host Key serial number to obtain the USB/CID Deployment Host Key License String.





Figure 7.2 – license.tenasys.com/qr page

Delegate User or Operations Manager

If a Delegate User license account Username and Password was provided by your Operations Manager, or the Operations Manager themselves can use the TenAsys License Portal to obtain the USB/CID Key License String.

Open a browser to <u>http://license.tenasys.com/login</u>, the *TenAsys License Portal*.

TenAsys License Portal www.tenasys.com	
LOGIN	
Welcome to the Ten	Asys License Portal!
Enter your username and password <u>QR</u> Te	nAsys entitlement and then click proceed.
Enter Username Your username is your company amail address Enter Password	Or use entitlement to activate new TenAsys license Enter Entitlement or SUAC
Proce	ed
# 2005-2022 Tanknur Connection, All sights research	d Lizanza Bound Builde 36915 1

Figure 7.3 – TenAsys License Portal

Enter the Username and Password, then click Login.

>			
Demo Company			
Primary Technical Contact: Secondary Technical Contact: Operations Manager Contact:	None None Tester Tes	tington	
Şerial Number	Q Enter numb	your TenAsys U er here to retrie licens	SB/CID key serial eve your TenAsys e!
Ģerial Number	Q Enter numb	your TenAsys U er here to retrie licens <u>Available</u>	SB/CID key serial eve your TenAsys e!
þerial Number	Q Enter numb Total 2,324	your TenAsys U er here to retrie licens <u>Available</u> 747	SB/CID key serial eve your TenAsys e! Create License
İşerial Number <u>Yodust</u> RTOS-MCRT RTOS-MCRT-KEY	Q Enter numb <u>Total</u> 2,324 4	your TenAsys U er here to retri- licens <u>Available</u> 747 0	SB/CID key serial eve your TenAsys ef Create License Create License
Serial Number rodust rros-MCRT rros-MCRT-KEY rros-RT	Q Enter numb 2,324 4 1,228	Available Available Available Available Available Available Available	Create License Create License

Figure 7.4 - USB/CID Serial Number entry

Enter the USB/CID Serial Number, then click the search icon. Click **Download** for a CSV file with the License String(s) for the USB/CID serial number. There may be more than one USB/CID key with the same 4-5 hex digit serial number. Find the line in the CSV file that matches the entire serial number.

Demo Company			
Primary Technical Contact: Secondary Technical Contact: Operations Manager Contact:	None None Tester Test	ington	
TEST	Q Enter y numbe	your TenAsys L er here to retri licens	ISB/CID key serial eve your TenAsys le!
		A	
Product	Total	Available	
Product RTOS-MCRT	<u>Total</u> 2,324	Available 747	Create License
Product RTOS-MCRT RTOS-MCRT-KEY	<u>Total</u> 2,324 4	747 0	Create License Create License
Product RTOS-MCRT RTOS-MCRT-KEY RTOS-RT	<u>Total</u> 2,324 4 1,228	747 0 1,035	Create License Create License Create License

Figure 7.5 - Download

Operations Manager

The Operations Manager can search for the USB/CID serial number in the Operations Manager interface, covered in the Customer Operations Manager Guide.

Install the license

Installation of a license is performed with either:

- INshell on the INtime Distributed RTOS console.
- The built-in web server on INtime Distributed RTOS. Access the web server interface by entering the IP address from the installation configuration of the target host or from the startup screen at boot time if the host was set to obtain an IP address via DHCP as shown in the example screen below to any browser on a host on the local network.
- INshell from the built-in web server on INtime Distributed RTOS.



Using INshell

(Either on the RTOS console or with INshell on the built-in web server): after transferring the license file to the INtime Distributed RTOS disk with FTP, use the command line:

Licman -i:[license.lic]

Confirm the installation of the license with the command:

license list

Using the build-in web server

Find the IP address for the INtime Distributed RTOS host:

13 files, 4182656 free (130708 clusters)
init: Initialized licensing system.
init: Loading syslogd
init: Loading USB stack
init: License check
init: Failed to acquire license.
init: Loading network
dhclient: rtl1g0: no link
dhclient: rtl1g0: no link
dhclient: rtl1g0: no link
dhclient: rtl1g0 got link
dhclient: DHCPDISCOVER on rtllg0 to 255.255.255.255 port 67 interval 2
dhclient: DHCPOFFER from 192.168.1.1
dhclient: DHCPREQUEST on rtllg0 to 255.255.255.255 port 67
dhclient: DHCPACK from 192.168.1.1
dhclient: New IP Address (rtllg0): 192.168.1.208 🌙
dhclient: New Subnet Mask (rtllg0): 255,255,255,0
dhclient: New Broadcast Address (rtllg0): 192.168.1.255
dhclient: New Routers (rtllg0): 192.168.1.1
dhclient: bound to 192.168.1.208 гепемаl in 43200 seconds.
init: Loading network apps
init: Loading FTP server
init: Loading web server
DrtosCIExtension.rsl loaded
init: Valid license not found.
init: Entering restricted environment to allow for license installation
init: or activation.
init: System will shutdown after 10 minutes.

Figure 7.6 - Host boot up screen with the IP address listed.

The host was set up in DHCP mode with the network connection on network device rtl1g0.

An alternative to find the IP address is to use the *INtime Node Management* window on any system on the network shared with the INtime Distributed RTOS target host. The *INtime Node Management* window shows the IP address on the right after selecting the system on the left. Click **Configure over network**.



INtime Node Management	×
INtime Nodes Intime Nodes Internet NodeA Internet NodeA NodeA NodeA	DRTOS Node Log IP address 172 . 16 . 10 . 100 Configure over network
	Ftp dient: C:\Program Files\FileZilla FTP Client\filezilla.exe
	Locate FTP client Connect over FTP
New Node Rename Remove	
Close	Save

Figure 7.7 – Select the RTOS node with the INtime Node Manager.

Both methods get to the initial INtime distributed RTOS screen from the built-in web server.

INtime: distributed RTOS	Distributed RTOS Web Interface	
	<u>Welcome</u>	
INtime Configuration		
Copyright © TenAsys Corporation 200	0-2023	www.tenasys.com

Figure 7.8 – Initial screen from the RTOS web server.

Click INtime Configuration.

INtime: distributed RTOS	Host Name DRTC Host IP 192.1	DS 68.1.208	Up time 5 days 10:30:25 License State Multi-Core Node Locked
		Login	
Enter the adn	ninistrator password		
		Login	
INtime Version: 7.0.23108.1 Copyrig	ht © TenAsys Corporation 20	00-2023 www.tenasys.com	System time: Wed, 3 May 2023 09:50:23

Figure 7.9 - Password screen of the target host's built-in web server.

Enter the target host password set in the installation configuration process. Click Login.

INtim		Host Na Host IP	ame DR 9 192	TOS 168.1.20	8			Up time License State	5 days 10:32:15 Multi-Core Node Locked
Info System	Nodes	Devices	Control	Syslog	TPAT	INshell	License		a Admin
				Platfor	m Info	ormatio	on		
General System Info INtime Version / Kerne CPU Name BIOS Version Boot Mode System Management Real-time Settings Hyper-Threading SpeedStep C-states Hartware Controlled	Mode	ace (HWD)		7.0.23108 Intel(R) Ca American UEFI enabled a • not present • C-state:	.1 / 7.1.23 eleron(R) (Megatrend nd locked sent but disabl s are OK	107 CPU N316 ds Inc. P1.3	0 @ 1.60G 30H 08/16/	Hz Airmont 2016	
There may be features usage with your appli Hyper-Threading means thread due to activit System Management Mod time of the system. H can be an indication	present cation. that two y by the le is enab lowever, n that SMIs	in this sys logical pr other threa led on this o SMI has o have occur	stem which rocessing f ad. We reco s system. S surrently I red.	affect the threads sha ommend disa	real-time re hardwar bling Hype ctivated b ed by this	performan e elements r-Threadin y means of tool. If	ce. You sh that may g for best an SMI th you see Ji	ould carefully result in addit real-time perf en this can ser tter values in	assess this platform for ional latencies in one ormance. iously affect the reponse excess of 100 us then this

Figure 7.10 - Main screen of the target host's built-in web server.

On the Target INtime Distributed RTOS host: Insert the USB/CID key into a USB port.



Figure 7.11 - USB/CID Key

After transferring the license file to the browser host, open the License page:

IN	distribute		Host N Host IP	ame DR 192	TOS .168.1.20	8			Up time License State	unlicensed
Info	System	Nodes	Devices	Control	Syslog	TPAT	INshell	License		💄 Admin
					L	icens	ing			
 Act Act Act Act Act Act 	ivate with e ivate with a ivate manu ivate manu ivate manu	ntitlement ctivation a ally: get fii ally: instal ally: instal	<u>account.</u> ng <u>erprint.</u> I license file	e.						
INtime Versi	on: 7.0.23108	1 Copyrig	ht © TenAsys	Corporation	2000-2023	www.tenasys	.com		System time: Wed,	3 May 2023 09:59:56

Figure 7.12 – License Management window

Download the License String.

Use Activate manually: install license file to import the license file.



Figure 7.13 – Enter license string window

And select the license file. Click **Install license file**.

Click Back to license management to verify the new license.

IN	tin		Host N Host IP	ame DR 9 192	TOS .168.1.20	8			Up time License State	5 Multi-Core	i days 10:46:21 e Node Locked
Info	System	Nodes	Devices	Control	Syslog	TPAT	INshell	License			admin
					L	icens	ing				
Valid I	license insta	alled: INt	ime RTOS	Multi-Core	Distributio	n Node Lo	ocked disk	SN locked			
Max lo	ocal nodes:	4									
Lockir	ng code:	0X	2390F								
• <u>Act</u>	ivate manu	<u>ally: get fi</u>	ngerprint.								
 <u>Act</u> 	ivate manu	<u>ally: instal</u>	l license file	<u>ə.</u>							
• <u>Act</u>	ivate manu	<u>ally: instal</u>	l license str	<u>ring.</u>							
INtime Versi	on: 7.0.23108	1 Copyrig	ht © TenAsys	Corporation	2000-2023	www.tenasy	s.com		Syst	em time: Wed	, 3 May 2023 10:06:

Figure 7.14 – License installed