



GENESIS64

Reserved Licenses



APPLICATION NOTE

September 2013

Description: Guide to configuring reserved user licenses for GENESIS64.

OS Requirement: Windows 8 x64 (Professional or Enterprise Edition), Windows 7 x64 (Professional or Enterprise Edition), Windows Server 2012 x64, Windows Server 2008 R2 x64, Windows Vista x64 SP2 (Business, Ultimate, or Enterprise Edition), Windows Server 2008 x64

General Requirement: Installation of GENESIS64 v10.80

Introduction

With GENESIS64, you can configure reserved user licenses for high priority or critical system users such as system admins, engineering accounts or crucial system operators. The feature allows licenses to be reserved for ICONICS security users (see GENESIS64 Security - Quick Start) or via client node name. The feature will reserve a license hence removing it from the pool of available licenses for other users/clients.

Note: It is possible to exceed the system license allocation with reserved licenses.

Configuring Reserved User License

Reserving a license for a user reserves it permanently removing it from the global pool of shared licenses. A user with access to the reserved licensing will first check for a reserved license then can take one from the global allocation if none in the reserved pool are available.

There are two steps to configuring a reserved user license:

- Assign the reservation to the license.
- Select the user(s) that license reservations would be available for.

Create the license reservation pool

To configure the license reservation pool it is required to make a change to the license configuration file and restart the license service.

WARNING: MODIFYING THE LICENSE FILE IN A MANNER OTHER THAN DIRECTED MAY CAUSE INSTABILITY OR THE PRODUCT NOT TO FUNCTION AS EXPECTED.

1. Locate the IcoLicenseRuntimeConfig.XML (C:\Program Files\ICONICS\GENESIS64\Components\IcoLicenseRuntime.Config.XML)
2. Copy the file to a different directory.
3. Open the file in a text editor such as notepad.

4. Go to the following line shown in Figure 1 to configure the number of reserved licenses:

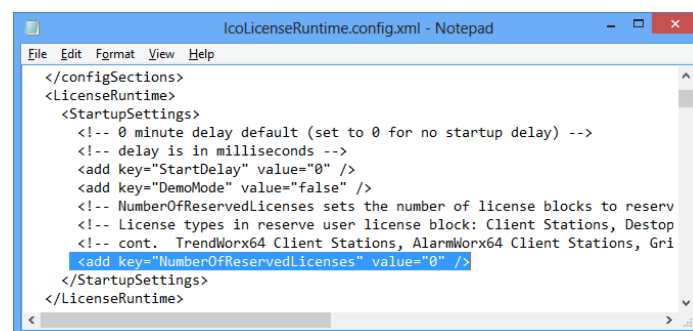


Figure 1 - Configuring IcoLicenseRuntime.Config.XML

5. Enter the number of licenses to remove from the global pool and add to the reserved pool.

```
<add key= "NumberOfReservedLicenses" value="5" />
```

6. Copy the file back into the components directory and overwrite the original.

WARNING: RESTARTING THE LICENSE SERVICE WILL HAVE SEVERE CONSEQUENCES ON LIVE SYSTEMS.

7. Restart the ICONICS License service.

Note: Licenses added to the reserve pool are not eligible to be used by global users, even if no reserved users are connected to the system, the licenses are always reserved.

Select users with access to the reserve license pool

1. Open the ICONICS GENESIS64 Workbench.
2. Select the security provider.
3. Under the users group select the user(s) to have access to the reserve license pool and enable the Reserved licensing check box.

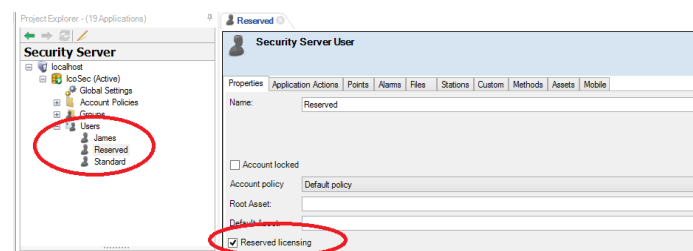


Figure 2 - Configuring Reserved licensing Users

Note: As security users access to the reserved licensing pool is independent of the reserved license pool configuration it is possible to

configure more users with access to the reserved licensing pool than number of licenses in the reserved pool and vice versa.

View the license status for reserved user licenses

The status of all licenses and reserved user licenses are shown in the MonitorWorX Viewer

MonitorWorX Viewer

Licensing Redundancy Statistics

Overview GENESIS64 Data Connectors AnalytIX AlarmWorX Multimedia Diagnostics

Feature	In Use Standard	Total Standard	In Use Reserved	Total Reserved	Total
GENESIS64 Developer Stations	0	1	-	-	1
GraphWorX64 Developer Stations	1	1	-	-	1
AlarmWorX64 Developer Stations	0	1	-	-	1
HyperHistorian Developer Stations	0	1	-	-	1
GraphWorX64 Client Stations	1	4995	0	5	5000
TrendWorX64 Client Stations	1	4995	0	5	5000
AlarmWorX64 Client Stations	1	4995	0	5	5000
GridWorX Client Stations	0	0	0	5	2
Workbench Client Stations	0	0	0	5	2
AlarmWorX64 Logger Servers	0	1	-	-	1
AlarmWorX64 Servers	1	1	-	-	1
TrendWorX64 Logger Servers	0	1	-	-	1
HyperHistorian Enterprise Servers	0	0	-	-	0
HyperHistorian Standard Servers	0	1	-	-	1
HyperHistorian Collectors	0	1	-	-	1
GENESIS64 Redundancy	0	0	-	-	0

Close

Figure 3 - MonitorWorX Viewer GENESIS64 license information

It is also possible to view the node(s) that are using license bits from this location:

MonitorWorX Viewer

Licensing Redundancy Statistics

Key icon Help icon

Overview GENESIS64 Data Connectors AnalytX AlarmWorX Multimedia Diagnostics

Filter by Node Name: All Nodes Export Diagnostics

Node	Feature	In Use Standard
ICOUKTDAPPV08	MobileHMI Server	1
ICOUKTDAPPV08	Unified Data Manager	1
ICOUKTDAPPV08	GENESIS64 Application Servers	1
ICOUKTDAPPV08	AlarmWorX64 Servers	1
ICOUKTDAPPV08	Client Stations	1
ICOUKTDAPPV08	GraphWorX64 Developer Stations	1
ICOUKTDAPPV08	Desktop Enabled Stations	1
ICOUKTDAPPV08	TrendWorX64 Client Stations	1
ICOUKTDAPPV08	AlarmWorX64 Client Stations	1
ICOUKTDAPPV08	GridWorX Client Stations	1
ICOUKTDAPPV08	GENESIS64 Redundancy	0
ICOUKTDAPPV08	GraphWorX64 Client Stations	0

Close

Figure 4 - MonitorWorX Viewer Diagnostics tab

Configuring Reserved Node License

It is possible to reserve a user license via node name to ensure access from critical workstations or managerial/engineering nodes.

Note: Reservation by IP address is not supported.

To configure the license reservation pool it is required to make a change to the license configuration file and restart the license service.

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1. Locate the IcoLicenseRuntimeConfig.XML (C:\Program Files\ICONICS\GENESIS64\Components\IcoLicenseRuntime.Config.XML)
2. Copy the file to a different directory.
3. Open the file in a text editor such as notepad.
4. Go to the following section shown in Figure 5 to configure reserved client licenses by node.

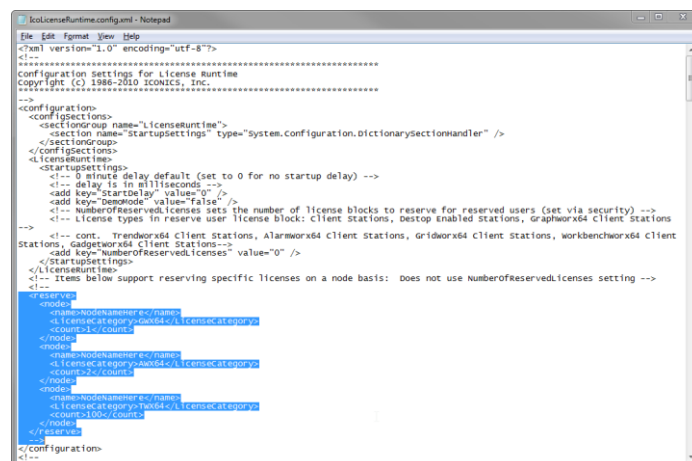


Figure 5 - Configuring IcoLicenseRuntime.Config.XML for Node Oriented License Reservation

5. Remove the comment from before and after the reserve section (<!--and -->)
6. Add or modify the node values according to the licenses you wish to reserve (see commented summary section below the reservation section in the file for product license breakdown) and the clients nodes you wish to reserve them for e.g.



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```
<node>
  <name>AdminNode1</name>
  <LicenseCategory>iCAL</LicenseCategory>
  <count>1</count>
</node>
<node>
  <name>AdminNode1</name>
  <LicenseCategory>GWX64</LicenseCategory>
  <count>1</count>
</node>
```

Client Station Reservation

A client station license (iCAL) is required if the number of clients that may be trying to connect to the system exceed or equals the number of available client station licenses.

Client Viewer Reservation

It is typical for a system to handle multiple client types, in which case a reservation for the client type may be required past the initial client station connection i.e. GraphWorX64 (GWX64), Workbench (Workbench), WebHMI (WebHMI). PortalWorX (PortalworX).

The example above would be implemented for a system where a machine whose node name is AdminNode1 always requires a license to connect to the system and launch a GraphWorX64 display. In this system there would be more users than client station licenses are available therefore requiring the client station (iCAL) reservation and a GWX64 reservation as there are a limited number of thick client GraphWorX64 Client application licenses available.

In summary the license reservation should be done on the license(s) which are under contention.

Note: License reservation by node are not reflected in MonitorWorX. Diagnostics tab will still display all license allocations, those it is unable to serve will be displayed in red.