



# Qg 2 Carrier Grade Multi-sync Gateway & PTP Grandmaster

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RELEASE NOTES FOR SOFTWARE VER 12.2.1

SJC-DEV7395-TB REV. 1.0



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## Revision History

Document: SJC-DEV7375-TB Qg 2 Carrier Grade Multi-sync Gateway & PTP Grandmaster Release Notes For Software Ver 12.2.1		
Rev	Date	Comment
1.0	2021-12-15	Initial Release

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## 1 Introduction

### 1.1 Qg 2 product

Qg 2 is a small form factor, highly accurate Multi-Sync Gateway that provides IEEE 1588 PTP Grand Master and Boundary Clock functionality. It addresses the needs of various industries and applications where reliable and precise synchronization is required, especially at the edge of the network, C-RAN and Fronthaul, and Enterprise.



Figure 1 Qg 2

Please refer to following Qg 2 product documentation for more information:

- Data-sheet: [https://qulsar.com/Products/System\\_Solutions/Qg\\_2.html](https://qulsar.com/Products/System_Solutions/Qg_2.html)
- User Guide: [https://qulsar.com/documentation/manuals/SJC-DEV7250-HR\\_Qg\\_2\\_User\\_Guide.pdf](https://qulsar.com/documentation/manuals/SJC-DEV7250-HR_Qg_2_User_Guide.pdf)

### 1.2 About This Release

This release supersedes all previous versions released prior to this and it is recommended to upgrade to this latest version. Please see Qg 2 User Guide for upgrade instructions.

### 1.3 Upgrade

This release has the infrastructure to support software upgrade to future releases from Qulsar.

#### **IMPORTANT NOTE:**

Release 12.2.1, is a special release with a change in the major number in the versioning (12.1.x to 12.2.x). With release 12.2.2 onwards, the release packages will use a new encryption mechanism which cannot be decrypted by any release before 12.2.1 (i.e., 12.1.x). We encourage all our customers to install 12.2.1 version first before upgrading to any future releases (12.2.2 onwards) to facilitate updates for new features, enhancements and fixes.

Also, we recommend our customers to login to our support portal and register their Qg 2 unit serial number to obtain the unique SWM license key and install it after upgrading to 12.2.1 release. The details of this SWM license key installation is provided in the User Guide v1.18, Section 10.3.

From release version 12.2.2 onwards, a valid Software and Support Maintenance (SWM) license is needed for software upgrades.

Please contact [support@qulsar.com](mailto:support@qulsar.com) or [sales@qulsar.com](mailto:sales@qulsar.com) to renew your license, as needed.

## 2 Features Added in this Release.

Table 1 Features Added in This Release

	<b>Features Added</b>
RM 638	Software and Support Maintenance (SWM) license infrastructure and support



### 3 Enhancements/Issues Fixed in This Release

Table 2 Enhancements/Issues Fixed

<b>Issue Id</b>	<b>Information</b>
RM 610	Support new serial numbers > 64K for timing engine
RM xxx	Several (minor) updates to User Guide v1.18

## 4 Known Limitations and Issues

The following issues are known limitations or issues which have not been fixed in this release.

Table 3 Known Limitations and Issues

Known Limitations and Issues	
1	<p>Qg 2 web UI has been verified on following browsers:</p> <ol style="list-style-type: none"> <li>a. Google Chrome version 56.0.x, 58</li> <li>b. Chrome App (iOS)</li> <li>c. Safari (iOS)</li> <li>d. Firefox 51.0.1</li> <li>e. Internet Explorer 11</li> <li>f. Microsoft Edge 44.18362.449.0</li> </ol> <p>NOTE: On rare occasions, when doing upgrade or reboot if browser tries to connect before reboot is complete, a benign browser security warning may be seen. To work around this, one of the following methods can be tried:</p> <ol style="list-style-type: none"> <li>1) Try logging after 3-4 minutes to ensure that initialization has been completed.</li> <li>2) Try explicitly typing “http://xxx.xxx.xxx.xxx” or “https://xxx.xxx.xxx.xxx” in the URL.</li> <li>3) Clear the browser cache history (for the last hour or 24 hours) and re-try</li> </ol>
2	<p>On the serial console (Craft port) on some occasions, strange characters may appear with the login prompt and user would not be able to enter the login credentials.  <u>Work around:</u> Wait for a few seconds for the login prompt to re-appear before entering the login credentials</p>
3	<p><b>IMPORTANT NOTE ON Qg 2 SOFTWARE UPGRADE:</b></p> <p>Due to a software issue that was discovered later and fixed in 12.1.20 version, please follow this procedure for doing Qg 2 software upgrades:</p> <ul style="list-style-type: none"> <li>• Stop the Engine before doing the software upgrade (for all versions as a safe measure)</li> <li>• To upgrade from a version prior to 12.1.20 to another version             <ul style="list-style-type: none"> <li>○ Reboot Qg 2 from Systems webpage</li> <li>○ Do <b>NOT</b> change any configuration after Qg 2 software comes up</li> <li>○ Upgrade to new Qg 2 software version of choice</li> </ul> </li> </ul>
4	<p>On Chrome browser, on rare occasions it might fail to connect to Qg2 webserver. This happens after a software upgrade on Qg2 and following reboot. Although the IP and other network parameters are still the same, the browser may not be able to connect as previous session was not torn down and replaced with a new one. The work around is wait for 30 minutes or clear the cache on the browser or use a different browser (Firefox, Edge, etc.) for the interim.</p>
5	<p>For G.8275.1 and G.8275.2, additional profile parameters under PTP:Clock webpage are as shown as common for both ports. The Master Only and Clock Local Priority are per port basis and whatever the user configures is applied to both ports. These two parameters will be separated on a per-port basis in a future release.</p>

## Contact

Qulsar Headquarters	Qulsar Sweden AB
90 Great Oaks Blvd, #204 San Jose, CA 95119 U. S. A.	Torshamnsgatan 35 SE-164 40 Kista Sweden
Sales Support	
Phone: +1 (408) 715-1098	Phone: +46 8 750 7850 Fax: +46 8 750 7851
Email: <a href="mailto:sales@qulsar.com">sales@qulsar.com</a>	
Technical Support	
Phone: +1 785-727-1263 (+1 QULSAR-1263)	Phone: +46 8 750 7850
Email: <a href="mailto:support@qulsar.com">support@qulsar.com</a>	