- when it has to be **right**

Leica Geosystems
Release Notes

Product	Leica SmartWorx Viva v7.00
	Field Controllers: CS10, CS15
	Total Stations: TS11, TS12L, TS15, TM50, TS50, MS50
	GNSS Sensors: GS10, GS14, GS15, GS16, GS25
Release Date	1st December 2017
Maintenance date	1st December 2017
Available in myWorld	Calendar week 49 2017

Available via: https://myworld.leica-geosystems.com/irj/portal

Contents

1 SmartWorx Viva v7.00 Release Notes - Introduction

Please do take your time to read these Release Notes. They contain information about

- New features
- Some bug fixes

Customer Care Product (CCP) dates	The SmartWorx Viva software version 7.00 can only be loaded onto CS Field Controllers which have a CCP date of **01 December 2017** or later.
	The SmartWorx Viva software version 7.00 can only be loaded onto TS Total Stations which have a CCP date of **01 December 2017** or later.
	The SmartWorx Viva software version 7.00 can only be loaded onto GS10, GS14, GS15, GS16 and GS25 GNSS Sensors which have a CCP date of **01 December 2017** or later.
Jobs, Coordinate Systems, Working Styles, RTK Profiles and other objects	All SmartWorx Viva "objects" (such as Jobs, Coordinate Systems, Working Styles, RTK profiles etc.) created or used within previous SmartWorx Viva firmware versions can be used without problems in SmartWorx Viva v7.00
Version compatibility between CS Field Controllers, TS Total Stations and GS Sensors	There is full compatibility between all CS field controllers, TS instruments and GS sensors and SmartWorx Viva v7.00. Any combination of instruments with this software version can be used, except the GS16 which can only be used with the CS20 field controller and the CS35 tablet.
	There is NO compatibility to SmartWorx Viva versions prior to v7.00.

2 SmartWorx Viva Software Improvements – New features

Support of QZSS tracking

SmartWorx Viva v7.00 supports tracking of the Japanese Quasi-Zenith Satellite System (QZSS) signals for those GS10/GS15/GS16/GS25 sensors with OEM7 measurement engines.

To easily find out if a GS sensor has an OEM7 measurement engine look at the top of the sensor – if the printing says '555 Channels' and 'Multi-frequency GNSS' then the sensor has an OEM7.

QZSS is targeted to provide highly precise and stable positioning services in the Asia-Oceania regions, while maintaining compatibility with GPS.

4 satellites have been launched already and QZSS is planned to be operational in 2018.

3 SmartWorx Viva Software Improvements – Bug fixes

The inclination values of the MS50 are not always correctly applied to the defined scan area

In some cases, the inclination values of the MultiStation are not correctly applied to the defined scan area. This can lead to a slight mismatch between the defined scan area and the scanned point cloud, especially if the MultiStation is not perfectly levelled.

This issue is fixed in SmartWorx Viva v7.00

During Setup, the instrument does not lock in again automatically after a two-face measurement

In the **Setup** application, if the Total Station is locked to a target and **Single EDM** mode is used, the Total Station does not lock in again automatically after a two-face measurement, once the instrument turned back to face one.

This issue is fixed in SmartWorx Viva v7.00

Sometimes the CS35 cannot connect to an MS50

In some cases, it was not possible to connect a CS35 to an MS50.

This issue is fixed in SmartWorx Viva v7.00

Incorrect handling of arc geometries in the Measure/Stake to Line apps

In the Measure to Line app, when a point was measured/staked in reference to an arc and the angle between the start of line, arc center point and measured point exceeded 180°, the displayed distance and offset values were wrong.

This problem is fixed in SmartWorx Viva v7.00

Point ID is not incremented after using the Set

When using the Set orientation setup method and afterwards starting a measurement in the Measure app, the last used Point ID would sometimes be used for the first measured point. This would mean 2 points could be stored with

Orientation setup method	the same point ID and the subsequently unwanted averaging of these points.

This issue is fixed in SmartWorx Viva v7.00, the point ID is correctly incremented. |
| **Points are stored without a code when the status a code group is changed within the Survey app** | Points are stored without a code, when a code group is activated or deactivated within the **Survey** app.

The issue is fixed in SmartWorx Viva v7.00 |
| **Point ID incrementing does not always work in the Stakeout apps** | In some cases, when working with a CS15 in GPS mode, the point ID incrementation in the Stakeout apps fails. The suggested point ID is a Total Station mode point ID and when using this point ID, the ID incrementation fails.

This issue is fixed in SmartWorx Viva v7.00 |
| **Lines are not exported into DXF** | If a job created or edited in Infinity, is used in SmartWorx Viva and then exported to DXF, the lines contained in the job are not exported.

This issue is fixed in SmartWorx Viva v7.00 |
| **Volume cannot be calculated in the Volume calculations app** | In case of difficult geometries (for instance many points in one line), it was not possible to calculate a volume in the **Volume calculations** app.

For SmartWorx Viva v7.00, improvements have been made in the application to cover more difficult geometries when calculating a volume. |
| **When importing XML data into a Rail job, lines are not imported** | When importing alignments from XML into a Rail job, not all the lines contained in the XML file are imported. When the same XML file is imported as a Road job, all lines are properly imported.

The issue of lines from XML not being imported into a Rail job is fixed in SmartWorx Viva v7.00 |
| **Elements contained in the paper space of a CAD file are displayed in the map** | When attaching CAD files to a job where the CAD files are containing elements in the paper space, those elements are displayed in the map.

With SmartWorx Viva v7.00 these elements are not shown in the map anymore. |
| **Code properties change when imported from XML** | Importing a global codelist via the **Import XML data** function changes the colour and line style of point codes containing linework.

This issue is fixed in SmartWorx Viva v7.00 |

Using the Survey function from within the COGO application will lose already entered values.

When using the **Survey** function from within the **COGO** application, some already entered values, such as Azimuth or Offset, are lost, once returning to the **COGO** application. This means it would be required to re-entered these values.

The issue is fixed in SmartWorx Viva v7.00