Announcing the Product Release of Leica Cyclone 8.1

We are pleased to announce the immediate availability of Cyclone 8.1. This release is primarily focused on providing support for the new Leica Client License Management (CLM) system. In addition to the technical implementation of the new licenses system, there are many product, policy and article number changes also associated with this release.

New CLM Licensing for all Cyclone and CloudWorx products
Cyclone 8.1 and all CloudWorx plug-ins are now using the new Leica Client License Management (CLM) system. This is the same licensing mechanism used by other Leica software solutions such as LGO and Leica Infinity.

This license technology delivers a much improved user experience in terms of software licensing throughout the lifecycle of their software usage.

New orders are streamlined with SAP integration and the users Entitlement Identification codes (EID’s) which are used for software activation are automatically generated and delivered to the user as part of the order processing and delivery.

Enhanced features allow the user to borrow or check-out a license which is a long standing enhancement request from many users. The self service features allow a user to interact via their MyWorld account to rehost existing license (move them permanently from one computer to another) and to retrieve their upgrades if they are on active CCP as new versions of software become available.

New “Flexible” License Type
With this release of Cyclone 8.1 we no longer differentiate between floating and node-locked licenses. Therefore, we only offer one type of license and one article number for each Cyclone module. Users can install any license to work like a node-locked license on a standalone machine or they can use that same license as a floating license. In other words, the EID can be used locally (on the same computer as the client) to activate the client or the EID can be activated on a license server computer and the client software can access their license as a floating license from that server.

The prices have been increased to be more in-line with the former floating license price. See your local price list for details.
See the document Leica Cyclone and CloudWorx Client License Management System.pdf that is installed with Cyclone.

**New Product Cyclone BASIC**

With this release of Cyclone 8.1 we are introducing a new product Cyclone BASIC. Cyclone BASIC is a combination of Cyclone SCAN and Cyclone VIEWER Pro into a single product. This is being done because of the slow shift towards scanners with onboard interfaces and less need of a laptop application to operate scanners in the field.

Cyclone SCAN and Cyclone VIEWER Pro are no longer available as of the release of Cyclone 8.1 and all of these licenses will all be upgraded to Cyclone BASIC.

In the field, Cyclone BASIC operates time-of-flight and phase-based Leica scanners that can be operated via laptops. Users can manage scan parameters; scan target acquisition; field QA; digital imaging; geo-referencing; auto-registration; tilt compensation; field survey methodologies including traverse, resection, and known point setup; scan filters; scanner calibration; and more depending on scanner capabilities.

In the office, Cyclone BASIC provides users with numerous, handy options for viewing and navigating point clouds and 3D models, as well as working with them for measurement and markup/redlining. Cyclone BASIC also serves as a versatile “back-office” data exchange module, supporting import formats from virtually any laser canner plus a wide range of popular export formats.

Cyclone BASIC is priced the same as the previous product Cyclone VIEWER Pro. Cyclone BASIC does NOT offer a CCP product and comes with a free, lifetime upgrade so any newly released versions will operate with any version of valid license.

**Other New Features**

1. **Support for Windows 8**
   Cyclone now fully supports Microsoft Windows 8.

2. **Cyclone support of 3” Black and white targets**
   Releasing at the same time as Cyclone 8.1 is a firmware update for the Leica ScanStation P20, version 1.5. One of the key features of this new firmware is the support of 3” Black & White targets. Cyclone 8.1 fully supports the use of these new types of targets.
   - All data from HDS scanners can used to extract 3” targets, but only the P20 has been tested for Max range and angle.
   - P20 Support for targets acquired “on-board”
   - Manual fitting support for P20 scans
     - ~50m max based on resolution
   - User settings added under Preferences to set Cyclone to extract 6” or 3” targets
   - Auto Target Finder support for P20 scans
     - Maximum range is ~14m and a maximum angle is ~30 degrees. The distance and angle specifications for extraction are approximately half of the 6” targets. See the Cyclone 8.1 Release Notes for further detail.
3. **Z&F import now matches Z&F laser control**
   Cyclone’s Phase-Based filters now match those used by Z+F so that data imported into Cyclone 8.1 is identical to the same data being imported in Z+F Laser Control. The Phase-Based Scanner Filter Setting dialog box has been updated to support these new filters.

4. **Pipe Manager Update**
   There is a new command **Filter Pipes**… found under **Create Object** in the ModelSpace. This new command brings up a dialog that is used to manage pipes in the ModelSpace. Pipes found with **Find pipes Automatically**… will find this command especially useful. Pipes can be searched by diameter and Tolerance and then assigned to a layer in the Cyclone Layer manager, deleted or selected. Please Look under **Filter Pipes** in the help section to find more information.

5. **New Scan format support for Reigl scanners**
   Cyclone now supports the RXP project file format. Please note that only RXP projects with *.3dd scan files are supported.

6. **Publisher update for GeoTags**
   Cyclone publisher now publishes all Geo-Tags in the associated ScanWorlds\ModelSpaces when publishing TruViews from a KeyPlan.

7. **Support for the new ZFC format used by the HDS7000**
   Cyclone has been updated to support importing of the latest version of ZFC format.

8. **New fitting algorithms in Cyclone**
   Cyclone has all new fitters that are more robust and handle noisy data better for improved results. Users can expect better fitting (i.e. more accurate placement of Cylinders, planes etc). Noisy data is now handled better by the fitter by ignoring “bad” points that may have affected the fit in the past. Fitters are used by Cyclone anytime point cloud points are used to create an object (i.e. cylinders, patches, elbows, sphere etc) including Fit to Cloud or Region Grow.

### Licenses for Training, Sales Team Demo, Dealers, and End User Trials

Some items have changed relating to the various types of licenses such as sales team demo licenses, etc.

- **Training Licenses**
  - These are generated by authorized persons in the Leica support team. Contact Lonnie Price for NAFTA and Marion Grosse-Elshoff for the rest of the world to learn who can generate these in your region.
  - These licenses contain one seat each of ALL Cyclone and CloudWorx products.
  - These licenses are active for 10 days. This allows you to get a license on Friday and have it remain active all the next week for training.
  - These licenses may NOT be issued for any purpose other than paid training by Leica personnel.

- **Leica Personnel Sales Demonstration Licenses**
  - These licenses are ordered via the SAP system using article 798744 - Scanning Software - Hexagon 1yr Demo.
These license include one seat of every Cyclone and CloudWorx product for 1 year from issue date
These licenses are ONLY to be issued to Leica employees for sales demonstration purposes

Dealer Licenses
These licenses are ordered via the SAP system using article 798745 - Scanning Software - Dealer 1yr Demo.
These license include one seat of every Cyclone and CloudWorx product for 1 year from issue date
These licenses are ONLY to be issued to authorized Leica dealers for sales demonstration purposes only
Each region will set their own pricing policies for these licenses. Check with your local management for details.

End User Trial Licenses
These licenses are ordered via the SAP system using articles as listed in the table below
These license are ordered per-product as shown in the table and are valid for 7 days after activation by the end user
These licenses are ONLY to be issued to end users as part of a product trial during the sales process with prospective customers

<table>
<thead>
<tr>
<th>Trial License Article Numbers</th>
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<tbody>
<tr>
<td>808824 - Cyclone BASIC Eval - 7 days</td>
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<tr>
<td>808825 - Cyclone IMPORTER Eval - 7 days</td>
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<tr>
<td>808826 - Cyclone MODEL Eval - 7 days</td>
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<tr>
<td>808827 - Cyclone PUBLISHER Eval - 7 days</td>
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<tr>
<td>808828 - Cyclone REGISTER Eval - 7 days</td>
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<tr>
<td>808829 - Cyclone SERVER-Base Eval - 7 days</td>
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<tr>
<td>808830 - Cyclone SERVER-Client Eval - 7 days</td>
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<tr>
<td>808831 - Cyclone SURVEY Eval - 7 days</td>
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<tr>
<td>808832 - Cyclone II TOPO Eval - 7 days</td>
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<tr>
<td>808833 - CloudWorx AutoCAD Basic Eval - 7 days</td>
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<tr>
<td>808834 - CloudWorx AutoCAD Pro Eval - 7 days</td>
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<tr>
<td>808835 - CloudWorx MicroStation Eval - 7 days</td>
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<td>808836 - CloudWorx PDMS Eval - 7 days</td>
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<td>808837 - CloudWorx Revit Eval - 7 days</td>
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<tr>
<td>808838 - CloudWorx Smart3D Eval - 7 days</td>
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<tr>
<td>808839 - CloudWorx SmartPlant Review Eval - 7 days</td>
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<tr>
<td>808840 - CloudWorx-VR 3ds Max Eval - 7 days</td>
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Note: The new CLM system allows us to easily track the issuance of all license types. We will continuously monitor the usage patterns of the various license types and will inform any region where we
see improper usage of license types to ensure we all closely follow the TLS license policies company-wide. We appreciate your cooperation in this regard.

**Licenses for Enterprise-Elite (EE), Education Product Program (EPP) and Time-Limited Pre-Paid (Lease, Hire, Rent)**

These license types have all been modified with updated policies. See the various other comreps for details of each.

- New Cyclone product and phase out of existing Cyclone products
  - See Comrep XX-2013 BU Terrestrial Laser Scanning – New product Cyclone BASIC and phase-out of Cyclone SCAN and VIEWER Pro
- All Cyclone and CloudWorx article numbers have been changed
  - See document Cy-CW-CLM-Article-Numbers.pdf in Media Source
  - See local price lists for pricing of these articles
- All previous Cyclone and CloudWorx article numbers are being phased out
  - See Comrep XX-2013 BU Terrestrial Laser Scanning – Cyclone-CloudWorx old article phase out
- New and updated license types and policies are being enacted
  - See Comrep XX-2013 BU Terrestrial Laser Scanning – Enterprise-Elite Subscription Program Update
  - See Comrep XX-2013 BU Terrestrial Laser Scanning – Education Product Program Update
  - See Comrep XX-2013 BU Terrestrial Laser Scanning – New Time-Limited software licenses
- Phase out of TLS BU MicroSurvey articles and introduction of new articles for direct order and support from MicroSurvey
  - See Comrep XX-2013 BU Terrestrial Laser Scanning – MicroSurvey products to be made directly available to Leica Sales

**Sales Tools**
Sales tools such as Powerpoints, movies, article numbers, etc. for this product and other recent Cyclone and CloudWorx releases can be found at this internal sales tools website: [http://scansw.leica-geosystems.com/public/cyclone81salestools/](http://scansw.leica-geosystems.com/public/cyclone81salestools/)

**Existing Cyclone and CloudWorx Customers on CCP**
Current users with CCP valid for Cyclone 8.1 will be contacted by Leica support and provided information and instructions regarding a migration process they must execute to transfer their existing licenses into the new CLM system. End users (customers) will interact with Leica MyWorld as part of this process to begin the “self-management” license process now available via Leica CLM.

Best regards,

**Bill Wallace**
Senior Product Manager
Terrestrial Laser Scanning Software