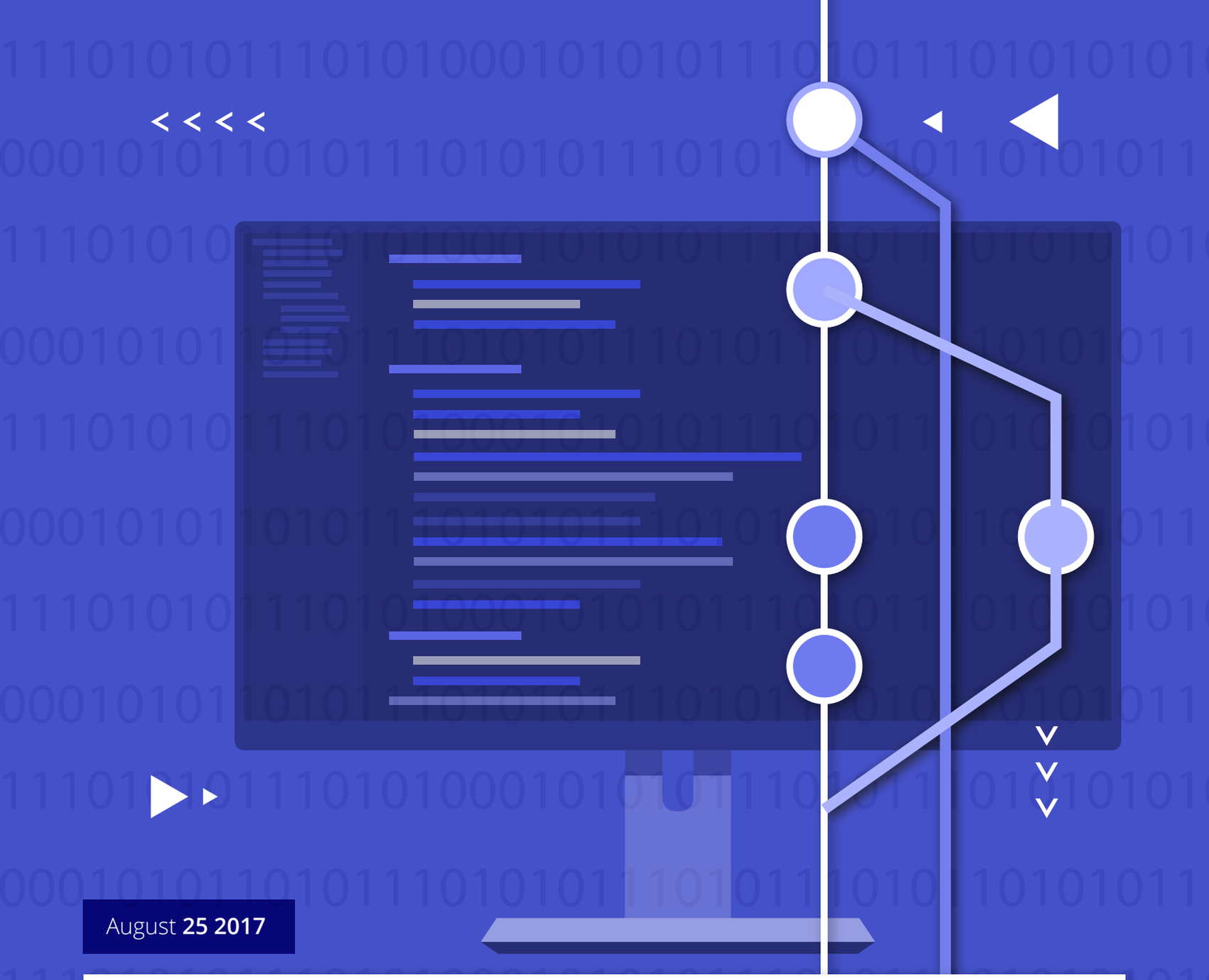


August **25 2017**

# TEIGHA® REVISION CONTROL

## VERSION CONTROL FOR .DWG CAD MODELS

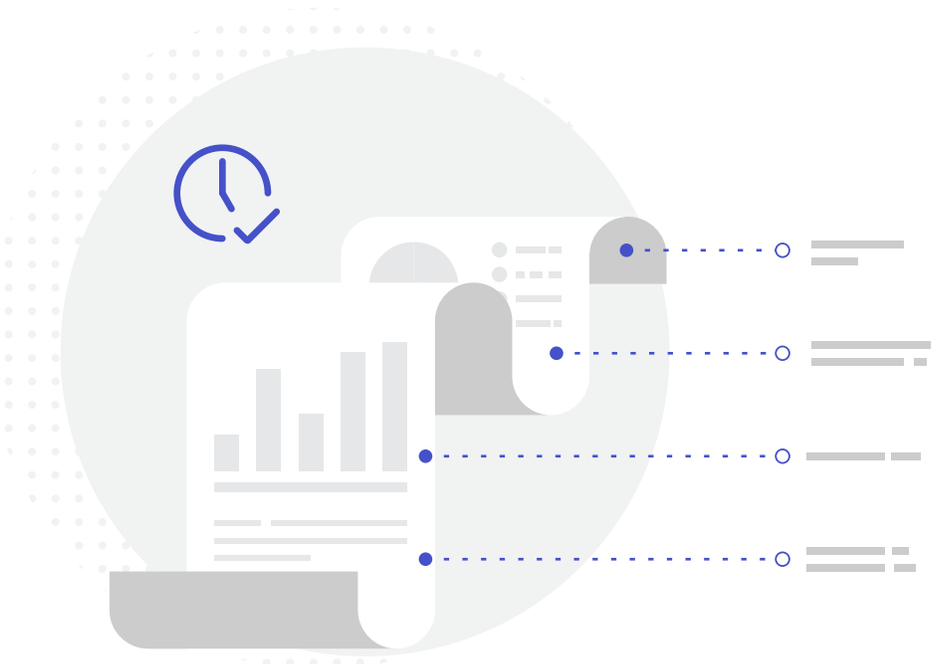
www.opendesign.com

# BACKGROUND

Version control is an integral part of any engineering process. There are numerous robust, mature version control systems for software engineering, including Git, Subversion, ClearCase and many others.

However, these systems that work so well with text files are not equipped to handle the binary files used in other engineering disciplines. A case in point is the .dwg file format used by Autodesk® AutoCAD® software and by many other applications from other vendors. The .dwg format has been heavily used since the 1980's, yet the ability to store revision data for .dwg in a compact, reliable manner has been missing—until today.

Open Design Alliance (ODA) is pleased to introduce the addition of Teigha Revision Control (TRC) to its Teigha Drawings product. TRC will allow any application that edits .dwg files to maintain a compact and 100% accurate revision history for these files.



# BUSINESS OVERVIEW

## INTRODUCTION

ODA is a non-profit technical consortium that has been providing interoperability solutions for .dwg since 1998. We know .dwg. Our new TRC technology is a product of our long history and deep understanding of the format and related technology.

## EXCLUSIVE TECHNOLOGY

ODA is the only vendor providing revision control technology for .dwg. TRC gives ODA members a competitive advantage in the engineering software market by allowing them to easily add revision control capabilities to applications that work with .dwg files.

## IMPROVED WORKFLOWS

TRC can improve any engineering process that creates .dwg files. While engineering processes have adapted to the unavailability of versioning support in this area, there is no substitute for a proper revision control system. With the availability of TRC, engineers no longer have to compromise.

## ATTRACTIVE PAYMENT TERMS

TRC is part of the standard set of Teigha components offered to all ODA members. If you are already an ODA member, there is no additional cost to use this technology. For prospective members, more information about Teigha pricing can be found at https://www.opendesign.com/join.

# PRODUCT PORTFOLIO

## AVAILABLE FOR DESKTOP AND CLOUD

TRC can be used by Teigha-based applications on the desktop and in the cloud. By using a common technology ODA members can more easily migrate applications between the 2 platforms.

## STANDARD VERSION CONTROL OPERATIONS

TRC supports check out, commit, merge, update to revision and other standard version control commands.

## SEPARATE REPOSITORY FILE

TRC stores .dwg data and version history in a separate repository file, and can generate 100% accurate .dwg files that represent any point along the version history.

## MULTIPLE USERS AND SMART MERGING

TRC supports safe multi-user editing of .dwg data. Merge conflicts will be identified only if 2 commits interfere at the property level. For example, a commit that changes the color of a circle will not conflict with a commit that changes the center point for the same circle.

## TEXT AND GRAPHICAL DIFFERENCING

Differences between versions can be displayed as text descriptions, or as graphical representations with new, modified and deleted entities highlighted.

## PLATFORMS AND LANGUAGES

- Implemented in object-oriented C++
- Available for all popular compilers on Windows, Linux and Mac

# APPLICATIONS

TRC allows users of even the simplest desktop .dwg editors to easily review, commit or revert changes, and analyze the drawing revision history

TRC supports complex distributed systems where multiple engineers, architects or designers can work simultaneously with one CAD model

## DESKTOP EDITING APPLICATIONS

## COMPLEX MULTI-USER EDITING

Versioning

## CLOUD SOLUTIONS

## SMART CENTRALIZED STORAGE

TRC is a natural fit for any type cloud based application that stores, renders or edits .dwg files

Replace hundreds of .dwg snapshots with one repository, and use differencing to see model evolution

# DEVELOPING NEXT GENERATION .DWG TECHNOLOGY

The .dwg format has a long history of heavy use, and it continues to be one of the most popular engineering file formats even today, more than 30 years after it was first developed. By extending this technology with versioning and multi-user editing, and making it cloud-compatible, ODA is making .dwg a smart choice for the modern application developer, today and into the future.

At ODA, we believe transitions to new technology, particularly in the engineering world, should be gradual and as painless as possible. By building upon the mature and successful .dwg format, our members can develop cutting edge applications that maintain compatibility with the CAD systems of today.


More information about Teigha products
www.opendesign.com
More information about ODA
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