



# Work Smarter, Not Harder



When it comes to capturing new asset information from electronic plan submittals, the old adage “measure twice, cut once” is a recognized ideal that is rarely achieved with current workflows and practices. Now, ACDC makes it possible!

The Open Spatial As Constructed Design Certification (ACDC) solution enables a new level of data validation against published as-built standards, prior to electronic submittal and data acceptance. ACDC radically improves data quality and confidence in your asset information captured from as-built plans.

ACDC allows organizations to support, check, and effectively realize the benefits of their chosen Standard in a consistent, automated workflow from specification, through validation and acceptance and into direct data conversion and incorporation into GIS and Asset Management Systems.

Working smarter not harder can be achieved with ACDC on the desktop and pre-validation using its companion ACDC Validation Portal.

# Save Time and Improve Data Quality

ACDC saves time and radically improves data quality through self-validation before submittal and then automates the direct loading of spatial and attribute data using pre-configured or user-defined standards. ACDC enables organizations to develop standards for data submittal to improve efficiency and enable comprehensive data checking before data loading.

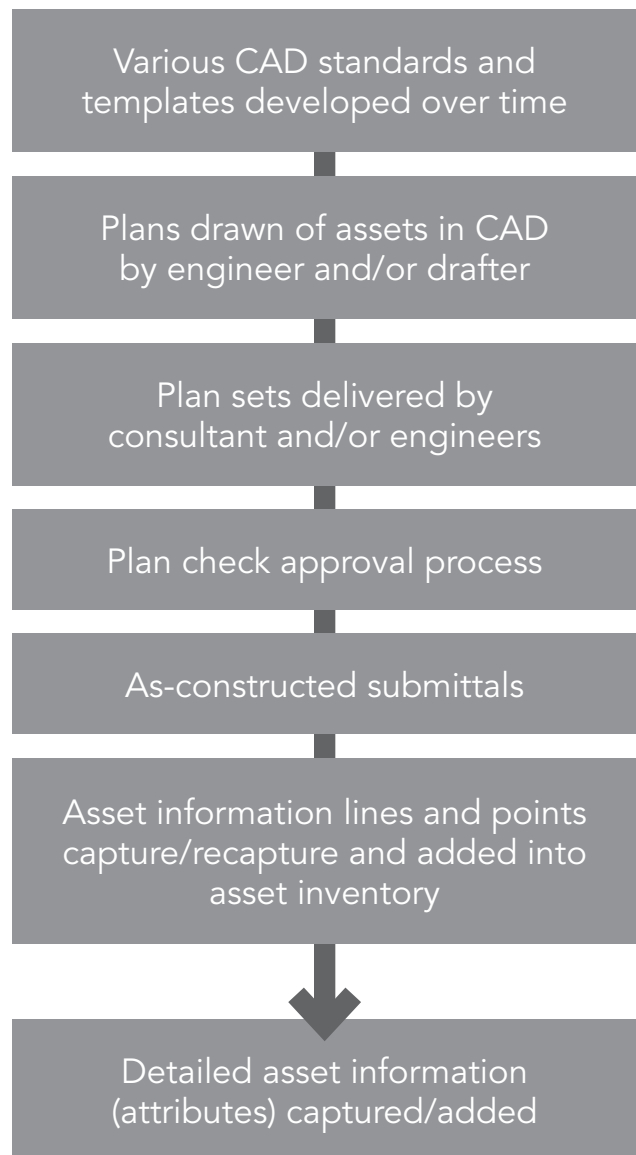
As constructed data checking can be done in-house with the ACDC desktop application and enables direct data loading. The ACDC portal delivers functionality online via a browser.

## Out with the Old

Typical as constructed data work flow and associated challenges

Each group uses its own in-house templates with layers, symbols, layouts, and annotation systems. Multiple templates are used in data submitted to the organization

- Design variations and inconsistencies are common
- Other than simple items there is no clear definition of all that is required
- There is no way to automatically check if drawings are even following their own template, nor if required data are entered or if standards are compatible with the organization
- Checking is manual, time consuming, and may be incomplete and inconsistent
- Hard to check asset rules, snapping and breaks in lines, and that attributes are included
- Often attributes are plain text which is difficult to connect with assets
- Long delays and back log of completed project data loading is common
- When plans are finally loaded/captured, the data is inconsistent, inaccurate, and incomplete and requires reinvestigation to confirm its validity
- Data discovery is required long after a project is already done – adding to in-house expenses
- Recapture of existing data is often required, adding inefficiencies
- More effort is required to capture accurate data
- It is hard to synchronize captured data between the GIS and Asset Management system
- The level of confidence in the data is low



# Validate and Automate Electronic Design Submittals

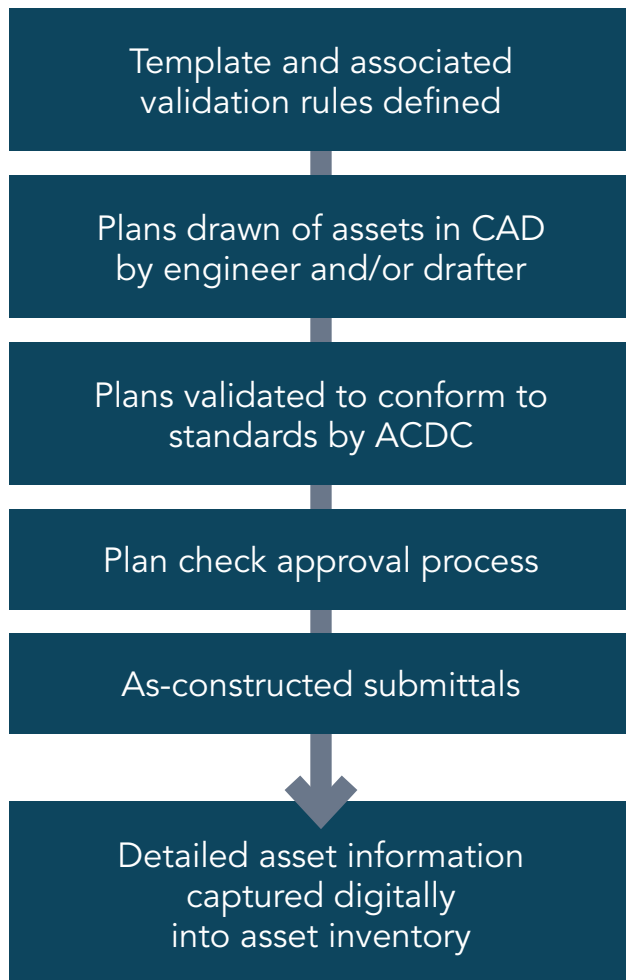
With ACDC you can easily validate and transform design information stored in "As-Constructed" drawings to GIS and Enterprise Asset Management information without recapturing the data.

ACDC manages submitted data, validates its quality against organizational and industry standards, and transforms it into geospatial and asset management information which can

be automatically loaded into GIS and CMMS/AMS systems with minimum disruption to current workflows.

## In with the New

ACDC data work flow and associated benefits



- Organizations define and extend their standard for drawings and attributes based on their internal standards and/or industry standards to build a comprehensive, detailed, and documented set of requirements
- What is required is defined and a matching drawing template with blocks and attribute fields is created, checked against the requirements, and provided to engineers and/or consultants to use on projects
- All new projects use the same template
- Engineers/consultants can run validation prior to plan submittal and can get a log and drawing showing non-conformance to the standard
- Errors and inconsistencies are automatically and consistently flagged before submittal
- Validation is more than layers and symbols as it can include attribute values and geometry (snapping and positional checking, for example)
- Validation can either be done in-house or via the ACDC portal online
- Plan checkers know what has been checked and can focus more time on more important aspects
- Checking turn-around time is significantly reduced
- Once validated assets are attributed and ready to load into the GIS and Asset Management system with data in the correct predefined format and attribute names
- Organizations can achieve better data quality while also reducing the backlog
- Improved data accuracy and completeness build confidence in the asset inventory data

# ACDC Functionality through the ACDC Portal

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- > Enable accurate automated CAD data validation from GIS and Asset Management
- > Radically improve as-constructed data submittal quality through self-validation



## Open Spatial Geospatial Suite

Open Spatial provides geospatial engineering solutions for managing spatial data from survey through design, construction, and data management. Our technologies are based on risk averse ubiquitous platforms that bridge the gap between CAD, GIS, BIM, and asset management applications. Utilizing open standards and engineering best practices, we deliver fit-for-purpose solutions with a focus on productivity improvements, definable return on investment, and long-term savings.



Edit in AutoCAD Map, Civil 3D, store data in single database  
Multi-users, off-the-shelf applications and data models

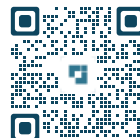


Web-based, geospatial portal and business intelligences  
integration platform



Automate the validation and loading of data from electronic  
submittals of as-builts directly into GIS and CMMS

Scan for more  
information



OpenSpatial

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