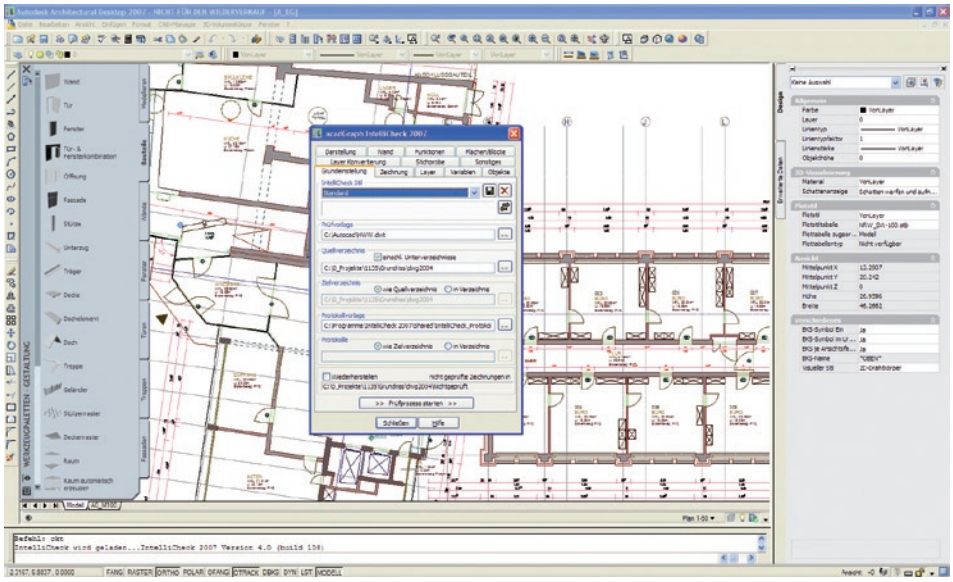
acadGraph

acadGraph IntelliCheck

acadGraph IntelliCheck is an intelligent, automated test system, which tests, records and repairs files independet from their links with external references (XRefs).



IntelliCheck user interface and basic settings

Avoiding mistakes

Many public and non-public offices assign design and drawing tasks to third parties. The drawing standards defined by the employer must be considered to prevent complications in further processing. Often, caused by users ignorance, mistakes in the definition of layers, text styles, line types and other properties are added to the drawing. In the worst case the drawing can vary in its appearance due to wrong settings. Texts get out of their leading or hidden lines become visible. The diversity of possible mistakes and their effects must not be underestimated.

With acadGraph IntelliCheck the work of testing drawings is considerably minimized. Subsequent errors caused by wrong presettings can be prevented. Differences are recorded and to some extent automatically adjusted.

acadGraph IntelliCheck tests for example, whether requested layers, line types, colors and fonts were used, single modules are placed on the correct layer or wall intersections are activated.

Your advantages with acadGraph IntelliCheck:

- >> *fast start due to the intuitional user interface*
- >> *noticeable assistance by the use of automatic testing of drawings*
- >> *partly automatic error correction*
- >> *different definitions of single test routines can be saved*
- >> *tested drawings can be provided with signatures*
- >> *automatic creation of inspection records*

Intelligent testing

Most employers now test manual and at random, wheather drawings delivered by third parties are consistent with the required standard. This takes a lot of time because – as often – the devil is in the details. To find all possible mistakes in a drawing, a checklist must be worked through with great effort. And that additionally to all other tasks that must be completed.

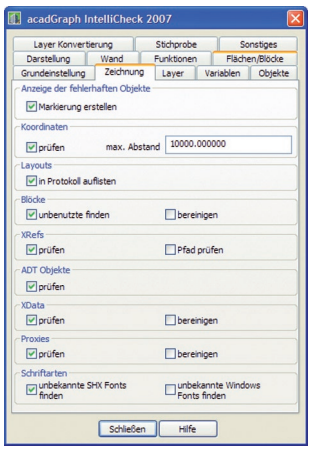
Let acadGraph IntelliCheck expediently support you with your work. Our software tests faster, preciser and complete (not only in random tests) all drawings of a directory – including subdirectories – with one click. acadGraph IntelliCheck can be used by the contractor for previous test, as well as by the employer for final tests of delivered plans. All Autodesk DWG files with modules from AutoCAD Architecture (former Architectural Desktop), DWG drawings with 2D elements as well as DXF files. IFC files are saved als DWG files before testing.

acadGraph IntelliCheck verify functions exceed the popular AutoCAD function “check standards”. E.g. it is tested, whether 3D-modules like walls, windows and doors are positioned on the correct layer, the allowed module styles were used or the wall intersections are activated. Of cause IntelliCheck can not provide an automatic correction for all cases. Occasionally an individual, special knowledge of the building industry is needed, e.g. to correct a minimal non-orthogonal wall intersection. Other settings, like the current layer position or the current display configuration can be corrected automatically, without the need of interference by the user.

With acadGraph IntelliCheck mistakes in planning data are identified extreemly fast, which eases the cooperation between partners considerably. Like this the data quality is assured and a considerable increase in productivity archieved.

Data check

To start the test routine, acadGraph IntelliCheck must be started and the correspondent dialog must be selected. At first the drawings and directories that will be tested and corrected are defined. In the clearly arranged dialogues the used test sample is defined as well. This is a reference document, to which possible changes are documented. After selecting the record guidline – an excel file, that is the basis for the test record – more detailes can be defined for the drawing test.



This includes for instance:

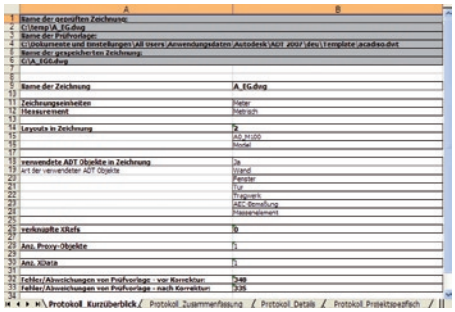
- layouts, Xrefs, blocks
- fonts
- layers, line types,
- variable settings
- test styles, dimensioning styles, plot styles, AEC object styles
- XData and proxy elements
- displays, display sets, display configurations
- wall intersections, wall intersection groups, orthogonal angular deviations of walls with any angle of deviation
- double objects, same objects at the same location, as well in third dimension – like walls, windows, doors

Style administration

After defining the office specific standards, they can be defined as a style and be saved for later use. All settings remain and can be selected and used later. Like this you can, according to the use of the drawing, define several styles that meet special criteria for the tests. All defined styles can be imported and exported and are accessible for all users at any time.

Test records

Records show the analysis of the test routine. The display of the test protokolls is defined by the design and the selected options in the acadGraph IntelliCheck dialogue. The first page of the record linked to the drawing contains a short overview of common drawing information and shows the number of detected errors before and after the correction.



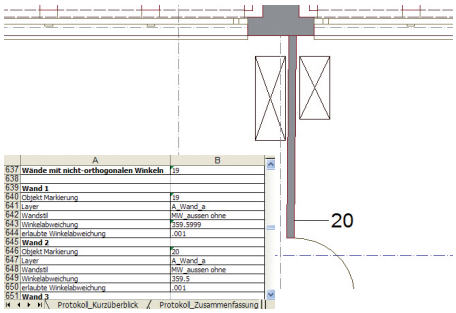
Overview of the test records in excel

Including e.g.:

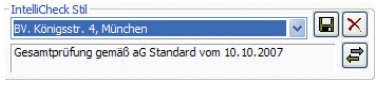
- drawing name, name of test sample and saved, corrected drawing
- list of XRefs linked to the drawing
- list of objects used in the drawing (e.g. dimensioning, walls, windows, doors)
- information about the used unit system (m/cm/mm)

Fast identification

To identify the incorrect objects quickly they can be labeled with a marker in the drawing.

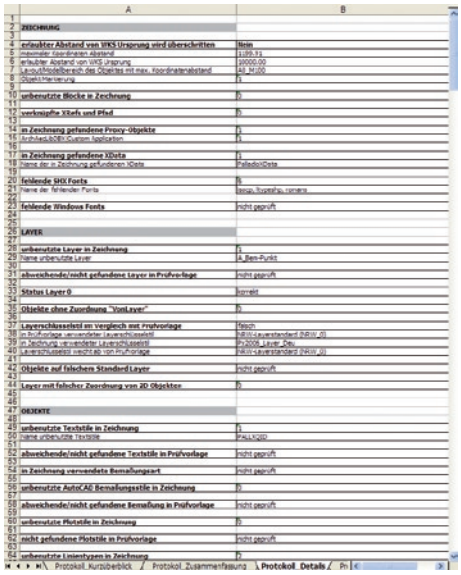


In the next step the test routine starts. In the process all drawings in the stated directory are automatically controlled and if desired corrected. Additionally all according test records are created and saved in the stated directory.



Style manager

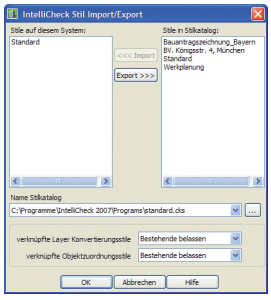
Like this you can see very quickly, if the tested drawing is a 2D drawing created with AutoCAD resources, a 2D drawing with specific building industry dimensioning or a 3D drawing with AutoCAD Architecture (former Architectural Desktop) modules. The second page shows a detailed list of all located and corrected mistakes as well as incongruities in layouts, XRefs, blocks, fonts, layers, line types, variable settings, text styles, dimensionings, plot styles, AEC objects, etc. Additioinally another summary of the whole record, that gives information about the number of tested, corrected and not edited drawings of all tests is created.



Signature

If required a signature can be added to the tested drawing. The signature shows, if the drawing has already been tested and how many mistakes or differences to the test sample exist.

Signature display



Function for import and export of styles