# 12 OpenClinica 4 - Release Notes 2017

**OpenClinica 4 Stack 2 (Release Date - 18 December, 2017)**

OpenClinica 4 Stack 2 contains a variety of enhancements and fixes to OpenClinica, and is the first fully validated release of OpenClinica 4. View the entire Stack 2 changelog here (login required).

Highlights include:

### New:

- Reason For Change is required when data chnages are made to complete forms
- User account audit log can be downloaded from Study Build System
- SDV can be configured per form
- Documentation/tutorials embedded in the application

### Changes & Fixes:

- Single Sign-on enhancements

### Other Links:

- Blog post series introducing the new OpenClinica

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**OpenClinica 4 Stack 1 (Release Date - 1 October, 2017)**

OpenClinica 4 Stack 1 is a major redesign of OpenClinica and contains hundreds of enhancements and fixes to OpenClinica. View the entire Stack 1 changelog here (login required).

More information on OC4 is available on the OpenClinica blog: Part 1, Part 2, Part 3

Highlights include:

### New:

- New Study Build System with drag-and-drop design and publish to test and production from one design
- New form engine with improved look-and-feel, mobile friendliness, autosave, multimedia capabilities, real-time skip logic, edit checks, and calculations

### Changes & Fixes:

- Improved study UI
- Cleaner Extract formats for CRFs with multiple versions
- Multiple modules working in a microservices model as opposed to a single Java application/WAR file
- Separate database schemas for each study

### Removed:

- Double Data Entry

Functional approval by Paul Bowen. Signed on 2018-06-27 7:28PM

Approved for publication by Jim Bonica. Signed on 2018-06-28 4:39PM

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