



GENERAL

- ❑ Installation and de-installation:
 - ❑ Improved installation procedure. MDAC installation is now 'invisible'. User can no longer terminate installation incorrectly. ALPS also uses the Windows Installer to install itself (if necessary).
 - ❑ Improved de-installation procedure. De-installing ALPS can now be done without having to stop and unregister services, etc.
- ❑ Overall screen layout and navigation improvements:
 - ❑ Added "Undo" button to various screens. Pressing Undo will roll-back all changes you made since you last pressed the Edit button.
 - ❑ Improved screen navigation: when leaving the screen, user actions are saved/aborted before actually leaving. In the previous versions, the screen was already invisible when you got the question "save changes?".
 - ❑ Change button order on various screens: same buttons in the same order.
 - ❑ When the Wafer/Frame Selector is opened, it starts with no selection.
- ❑ Platform: ALPS LT now runs on Windows NT 4.0 and on Windows 2000 Professional.
- ❑ Enhanced license management: Allows to run systems with controlled Export licenses (counting per 10,000 wafers exported), and with limited numbers of wafer map formats (both for Import and Export).
- ❑ Access Control:
 - ❑ Improved Windows NT/2000 security management. Specify users for Sort,

Purge and Notify. Additional users for file access, if needed.

- ❑ You need to have ALPS LT System Administrator permission to change anything on the Sort, Purge and Notify screens.
- ❑ Robustness: Repaired the problem in ALPS LT 2.40 with the start order of services.
- ❑ Enhanced problem analysis tools:
 - ❑ Improved the License Tester: Now shows both actual number of licenses bought and also number of licenses in use.
 - ❑ Included a facility to get a report of the computer. This report includes things like: which OS (and SP), all ALPS program dependencies, etc., DLL's present, version numbers. Also allows to maintain the ALPS LT database: compact and repair.
 - ❑ Added a program to start/stop detailed logging of equipment communication.
 - ❑ Improved logging: all logfiles are stored in one directory.

IMPORT SCREEN

- ❑ Navigation improvements:
 - ❑ When the user selects a path like \\wafermapserver\maps\dir1\subdir2\subdir3, ALPS sets the selected 'drive' to \\wafermapserver\maps\ and navigates to the directory 'dir1\subdir2\subdir3'. This allows the user to see everything of the share \\wafermapserver\maps\.
 - ❑ Navigation is remembered on the import screen, when switching between import screen and any other screen.
- ❑ Repaired Frameld problem: On Import, no check was done if frame IDs imported already existed.

MAP SCREEN

- ❑ New feature: Wafer splitting. Includes viewing bin totals per segment before splitting the wafer. Includes assigning new wafer IDs to each piece. User can split wafer -
 - ❑ into 2 pieces (horizontally or vertically)
 - ❑ into 4 pieces.

- ❑ “freehand” pieces (broken wafers; diagonal lines; arbitrary number of line segments; moveable line segment handles; showing broken dies)
- ❑ Full-screen wafer map view facility, in addition to already existing Zoom function.

PRODUCT SETUP SCREEN

- ❑ Added the possibility to translate bincodes. This is done via the bin table in the Product Setup. Wafer maps are sent to the die bonder using the translated bin codes. Wafers are shown on the Map and History screens both ways (default setup; switch facility).
- ❑ Facility to specify a wafer picture with the Product Setup (usually an edited photograph of the real wafer). Useful to check e.g. reference dies, wafer orientation.
- ❑ Allow to specify no dimensions (wafer diameter, die width/height) on Product Setup screen.

HISTORY SCREEN

- ❑ Full-screen wafer map view facility, in addition to already existing Zoom function.

PURGE SCREEN

- ❑ Added button ‘Run Now’ (single-“shot”) on the Purge screen.
- ❑ Repaired problem with the “Include Run / Include Shipment” feature on automatic wafer removal.

DIE PICK SCREEN

- ❑ New feature: Save a (partially picked) wafermap shown, as the newest wafer map version. Intended to be used as an “emergency” facility, in case of die bonder problems: situations in which the die bonder does not upload the wafer map, but the operator still wants to save the current status.
- ❑ Support for new equipment types.

SYSTEM SETUP SCREEN

- ❑ Allow re-importing the same wafer: When a wafer is imported twice (same map version), ALPS assumes that this is a new version of the map and adds it to its database. Configurable; by default switched off.
- ❑ Allow mounting wafers on earlier used frames. Assigning wafer a frame ID already in use. In that case ALPS will conclude that the wafer having the frame ID now, has been unmounted, and accordingly updates its database. Configurable; by default switched off.
- ❑ The users you specify for Sort, Purge and Notify on the System Setup screen, have to be Windows NT/2000 users. It’s oke if they are ordinary users (without Windows Administrator permissions).

SECURITY SETUP SCREEN

- ❑ Cleaned up list of ALPS permissions.

NOTIFY SETUP SCREEN

- ❑ Repaired Notification problem: when lots of mail messages are sent within a short period (a burst), the mail program got problems.