

## **Release Note 2V** (WinSOTAX EXE Version: 2.6.4)

### **New Functionality**

#### **General**

##### **Driver Improvements**

- Support for Thermo (EVO 600) Photometer Type
- AT70 System: New Energy saving option : If activated => automatic Stop of Stirrer and heating after Test End
- AT70 System: Support for new 60 pos. Fraktion collector
- AT70 System: A active Terminal echo in the bath settings gets now automatically disabled
- AT70 System: Additional small Improvements for AT 70 bath driver
- Improvements for Metrohm PH driver

#### **Bug fixes**

- Small Bug Corrections for used CE 70 driver
- Small Bug Correction for the Analysis report of Master-Slave Systems
- Bug Correction for Manual Data Input with Placebo Subtraction for Single Beam Photometer
- Bug Corrections for Manual Data Input with HPLC Methods
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- Calibration Module: The Edit of existing data could generate Problems in rare cases
- Small Bug Corrections for Analysis Registration Module
- Analysis Report: Some values in the statistic Part where calculated using rounded Values => removed
- Small Bug Correction of rare problems with general data rounding functionality

## **Release Note 2U** (WinSOTAX EXE Version: 2.6.3)

### **New Functionality**

#### **General**

- Support for new CE 7smart B Device

#### **Bug fixes**

- Corrections of a small Bug that could cause problems Editing Calibration Data Results

## **Release Note 2T** (WinSOTAX EXE Version: 2.6.0)

### **New Functionality**

#### **General**

- Online Systems: Virtual Media Change (using Media Add 0) allows (optional) different Measurement wavelength during test
- AT 7 Offline System: It's possible to make a Baseline to Fraction (Sampling before Tablet

- input).
- General: Improved Log File functionality for system maintenance
- AT 70 System: Warning Message for unsupported Dilution Values for Variable Dilution Media Option
- Support for Windows Vista!  
(Attention: The general WinSOTAX Online Help (usable pressing F1) is normally not usable with Vista \* !)
- \* To give MS Vista a work around: A Vista compatible WinSOTAX HTML Help system is located on WinSOTAX CD and can be used!

#### **Driver Improvements:**

- Metrohm PH Driver: Improvements in driver: Better handling for communication problems
- Hamilton Driver (for Kloehn syringe devices): Improvements in driver for better handling of device generated error messages
- AT7/AT70 System: Improvements for support of new firmware(s)
- CE System: Improvements to fix Temperature protocol problems
- Thermo photometer Driver: Support for new firmware & Improved device initialization
- Analytik Jena photometer Driver: Support for new firmware Version(s) 3.2.X added

#### **Bug fixes** (A lot of very special ones)

- Corrections of a small bug that could cause a wrong Username visible during failed Login in the Audit-Trail
- Correction of a small bug with automatic Excel export option (Special conditions could cause errors!)
- Correction of a small bug in Method Definition: 2.nd Media for option "Infinity run" was not automatically changed in case of a change of the primary media
- Correction of a possible problem: A Analysis run could fail if registration window open with running analysis in Edit mode open
- Online System: Correction of a bug using Standard monitoring (Option Double) with different media (Secondary was sometimes not used for calculation)
- Online System: Correction of a small bug using Placebo subtraction with media without sample in the analysis report
- Online System: Correction of a small bug using media without sample causing the last sample time not usable for result range specification
- Online System: Correction of a bug with systems without Hamilton valve using Option "Standard monitoring one per sample"
- Online System: Correction of a small bug in Perkin Elmer Photometer Driver: Error measuring Baseline possible for Methods using Standard Monitoring (only for 8 Position Cell Changer)
- Online System: Automatic run stop in case of a too big (> 1 Min) Sample delay did sometimes not work!  
(\* Only for Systems with Hamilton valves using Standard Monitoring: Option Double!)
- CE System: Correction of a bug with Media (=> Wavelength) Change and short Sampling times: Wavelength change time was not corrected by Flow (CE => PM) delay time
- CE System: Corrections for Systems using ultra low Flowrates (< 1 ml) with Peristaltic pump) in Long Time (some weeks!) Tests

## **Release Note 2S** (WinSOTAX EXE Version: 2.5.9)

### **New Functionality**

#### **General**

- None

## Bug fixes

- Corrections for Suitability Tests
- Small Corrections for Excel Export of Multi Component Analysis
- Small Corrections for Analysis runs with no user logged in: A click on System Messages needs a re login of the user now

## Release Note 2R (WinSOTAX EXE Version: 2.5.8)

### New Functionality

#### General:

- Online Systems: Addition of a Autozero Functionality in "Active Tool" Scan Screen.
- Online Systems: Optional Power Save Function to improve Photometer Lamp lifetime (Automatic Switch off after a user selectable Time)
- AT7X Improved support for Sotax FS7 Filterstation

#### Bug fixes:

- Online System: Corrections for Thermo Evolution Photometer Driver
- Small Corrections for Calibrate Standards Window
- CE System: Small Corrections for CE70 Driver
- Small Corrections for Cell Grouping using Multi Component Analysis mode
- Corrections for Analysis Report: Purity of Standards Die Reinheit von Standards wurde z.T. nicht richtig angezeigt
- Correction for Analysis Stop caused by Baseline Absorbance out of limit (set in Method)

## Release Note 2Q (WinSOTAX EXE Version: 2.5.7)

### New Functionality

#### General:

- Support for Suitability Tests (Thermo, Perkin Elmer & Agilent Photometers) with comparison of different Standards (Concentrations) measured before Test Start
- AT 7 System: Improved Support for Sotax Filterstation FS 7
- Thermo Evolution Photometer: Improved Driver stability.

#### Bug fixes:

- AT 70 System with Buffer battery + MF (Multifunction Interface) and without Transferstation (TS):  
Corrections for pure Offline Runs using Option: "Filter Change after Reading".
- AT7 System: Additional Changes for CP Pump (using CAN Bus) for AT 7smart.
- Scinco Photometer: Minor Changes.
- Jena Specord Photometer: Minor Changes for 8-position cell changer

## Release Note 2P (WinSOTAX EXE Version: 2.5.6)

### New Functionality

## General:

- New measurement mode added for Suitability Tests (only for Thermo Photometer). (Measurement of 2 Standards before Test start. The test starts (Tablet drop) only if the standards results are in an editable range)
- Improved manual scan function using the Active Tools. (editable range for graphic windows)
- AT 70 System: Option to choose different process control for media change. (Option: Full change, Replacement)
- Support for Sotax FS Filter station
- Full Support for CP Pumps (using CAN Bus) for AT 7 Smart
- Support for Jena Specord 205 Photometer

## Bug fixes:

- Corrections for Scinco Photometer.
- Correction in the calculation for Analysis using Placebo Subtraction with online Standard Monitoring.
- Corrections for closed loop USP IV Systems. Small sample volumes were not possible because of splitting rate < 1%.
- AT 70 Systems: Correction of a problem that could cause a wrong calculation of the vessel volume using a method with a media full change.
- Media Change Option 'Infinity' could cause wrong %-Dissolved calculations for the last sample in Systems using special Option 'No add up of % Dissolved' in the application settings.

## Release Note 20 (WinSOTAX EXE Version: 2.5.5)

### New Functionality

#### General:

- Support for pH Meter Metrohm Type 780/781.
- Support for Scinco Photometer.
- Measurements with USP 4: When using manual data input, now there is the possibility to choose between two ways of calculation.
  1. Averaging the data in between two intervals. --> used when reading absorbance in the media flow
  2. Without averaging the data in between two intervals.--> used when entering data of fractioned samples.

#### Bug fixes:

- Registration of analysis when a filter is set (in the search dialog) led to problems.
- When having a Method with more than one component the hint of the actual E11 Value of the measurement page for medium 2 and 3 it did not work.
- Sometimes when refreshing methods within the dialog "cell Grouping" was not working.
- Additional security when changing an on-line method to a off-line method (using Save As) can not lead to a problem.

## Release Note 2N-1 (WinSOTAX EXE Version: 2.5.4)

### New Functionality

**General:**

- none

**Bug fixes:**

- Method Dialog: Incorrect error message when choosing a standard. This happens when the standard is stored without E11 value.
- Method Dialog: If entered 0 as a Refill value, the refill is not proceeded. New value 0 is not allowed.
- Method Dialog: Improvement in the functionality in some of the entry fields.
- When confirming the message box "Fraction collector not ready" it could happen that afterwards the tablet drop in is not proceeded.
- With a media change in combination with the MF Multifunction Interface, it could happen that the pausing of the temperature protocol is not long enough.

## **Release Note 2N** (WinSOTAX EXE Version: 2.5.3)

**New Functionality****General:**

- Support for Jena Analytik Photometer ( Specord 210 etc.).
- Improved Support of Shimadzu UV1700 Typ Photometer.
- Support for long term Tests with very low flowrates in USP IV.

**Bug fixes:**

- Correction of a small bug in the Standard administration.
- Improved Default Value settings for Photometers in Hardware configuration.
- Corrections in Perkin Elmer Driver for Measurements with Placebo and (together with) Standard Monitoring.
- AT 70 Systems: Correction of a possible small bug in Dosage check calculation during the report generation.

## **Release Note 2M** (WinSOTAX EXE Version: 2.5.2)

**New Functionality****General:**

- none

**Bug fixes:**

- Correction in the functionality of HPLC Analysis.
- AT Systems: Error Correction in the module Standard Monitoring - One per Analysis
- AT 70 Systems: Correction in the AT 70 Driver to initialize the system in connection with a CY Pump
- AT 70 System with Buffer Battery: If after an On-Line Analyse immediately follows an Off-Line Analyse, by mistake during the test preparation the media volume, which is needed to take a Baseline reading, is added.

## **Release Note 2L** (WinSOTAX EXE Version: 2.5.1)

**New Functionality**

**General:**

- Support of new SOTAX CP 7 Piston pump
- Improvement for HPLC Measurements. ( Extended Standard selection )
- Database Upgrade Functionality ( Upgrade for WinSOTAX Installations 2 X )
- Improved self check functionality for Installations

**Bug fixes:**

none

## Release Note 2K

 (WinSOTAX EXE Version: 2.5.0)**New Functionality****General:**

- New Standard Measurement Option: Measurement of 2 different Standard solutions with different concentrations at the start of Analysis\*
- New Placebo Absorbance Correction Option: Sample Measurement with flexible Correction at 2 Additional Wavelengths\*
- Simple Scan Functionality in the Manual Mode from the spectrophotometers
- View Standard: New selectable between actual Standard in use or all entered Standards on the Database\*\*
- Support of Thermo Evolution 300 Photometers
- Support of Shimadzu UV 1700 Series
- Entry field of the Dead Volume of the vessel valve AT 70 (influence in the dosage volume)

\*Supported only on new installations of the Revision 2K or with a separate database modification for earlier Revision

\*\*Fully supported only on new installations of the Revision 2K and limited for earlier Revision

**Bug fixes:****General Corrections**

- Corrections in Hamilton.DLL for the use of Kloehn Syringe Models
- Corrections in TS 70 driver for the cleaning process after the analysis
- Error Correction in the Calibration Module for the use of Agilent Photometers
- Problems in Perkin Elmer driver for the use of Placebo Correction together with Standard Monitoring fixed
- Corrections in Shimadzu driver for the use with Calibration Tool
- Corrections in Agilent driver or the use over LAN communication
- Corrections in Excel Data import
- CE 7*smart* (Open System) Small Problem during Media change corrected
- Correction of various spelling errors

## Release Note 2J

 (WinSOTAX EXE Version: 2.4.2)**New Functionality****General:**

- Improved synchronisation management between multiple open dialogs.

**Bug fixes:**

### General Corrections

- AT7 / 70 System: Button "Blow out " missing in Release 21 version is visible again.
- TS70 System: Improvements for Filter change.

## Release Note 2I (WinSOTAX EXE Version: 2.4.1)

### New Functionality

#### General:

- AT7 / AT70 System: Configurable Offline Blow Out time.
- CE7 Smart System: Fill in closed Vials. ( Piercing System ).with configurable Blow Out time.
- Implementation: Option to the "Application Settings" descriptions to System defaults. (Useful after System Upgrade).
- Improvements for Synchronicacion of Data between Batch Dialog <=> Registration Dialog(s).
- Implementation: Optional Display of %Dissolved per Sampling Time Results in Analysis View Dialog

### Bug fixes:

#### General Corrections

- Error Corrections HPLC Online System
- Misc. Errors for User Recalculation of Multi Component Analysis Data fixed.
- Analysis and Batches could get aborted even if no user was logged in.
- Detail corrections Perkin Elmer Photometer. ( Improvement of stability )
- Errors correction for Print of Analysis (Run Protocol ) data
- Problems in Method Selection in Registration Dialogs using special Sort options fixed.
- Problems with calculation of "Cell Grouping Data " using Baseline and "Single Beam Photometer" fixed.
- Count of failed Login Attempts did't occure for users seperatly.
- Addition of different missing Audit trail protocolling steps.
- AT70 System: Dosage Volume was missing for secondary Analysis using Cell Grouping.
- General detail improvements.

## Release Note 2H (WinSOTAX EXE Version: 2.4.0)

### New Functionality

#### General:

- Support for Windows XP.
- Implementation Audit Trail. ( 21 CFR Part 11 )
- Implementation data Export to MS-Excel or ext. Database.
- Overlay of analysis data from different Lots/Analysis possible. ( Statistical Evaluation according USP II & III )
- Implementation AT 7X HPLC Online.
- Password Registration is generally asking for a confirmation / New Passwords can not be replaced with old identical password.
- Improved device specific Report generation. ( Analysis / Method Report )
- New Option: Manuel Placebo Substraction for manual Input of external measured Placebo data.
- New Option: Placebo Substraction "Measure all" for additional Baseline (and Standard)

Measuring using Placebo wavelength.

- External Data Input of HPLC or Photometric data. (copy/paste from MS - Excel)
- From not validated Analysis, after a Run the Registration Data can be modified. (Must be activated by the administrator)
- After 3 wrong Logins the user will be locked from the system.
- Analysis Recalculation possible for dosage / purity.
- Through a copy of the original analysis data, changes from Analysis data are possible.
- Calibration Module Data can be printed without being saved to the database.
- The information that a recalibration of the analysis is being performed can be found on each report page.
- Listing of serial numbers of devices ( Bath / Photometer) in the analysis report is possible.
- CE 70 Systems: Implementation: Closed System double loop.
- Perkin Elmer Photometer driver: Improved Error handling/recognition / Improved Initialisation of device.
- AT 70 Systems: Implementation: Medium Replacement using Bottom valve possible.
- AT 7X Systems: Implementation: Fill in closed Vials. ( Piercing System )

## **Bug fixes:**

### **General Corrections**

- Report Generator properties could cause ( without Method band ) errors in shown corrected dosage volumes. ( Only AT 70 )
- After the Login for the validation the validator stayed in the system as the new actual user.
- Sorting of component & Medium doesn't work ( even if so registered ) not using name.
- Using Cell Grouping ( stirring ) protocoling could fail for 2 nd. Analysis Group.
- Deactivation of Blanc cell for Analysis view could cause failures in the statistical evaluation of analysis data.
- Agilent Photometer driver problems are solved.
- Baseline absorbance has not been calculated correctly using analysis with placebo subtraction and single beam photometer.

## **Release Note 2G** (WinSOTAX EXE Version: 2.3.1)

### **New Functionality**

#### **General:**

- Implementation CE 7smart.
- Analysis executed on AT 7x a manual media change is possible.
- Analysis executed on AT 7x a media change may be executed independently from a sampling.

## **Bug fixes:**

### **General Corrections**

- Negative absorbance values on Standard readings cause wrong calculation of %-Dissolved.
- Multi component analysis: It could happen that on the sampling reading the Absorbance value from cuvette 1 was not recorded.

## **Release Note 2F** (WinSOTAX EXE Version: 2.2.5)

### **New Functionality**

### General:

- Implementation AT 70smart with Hamilton diluter station.
- When running AT 7x and AT 70x Analysis with each run a runtime protocol is stored in the database.
- Extension of numbers of samplings from  $8 \times 110 = 880$  to  $8 \times 150 = 1200$ .

### Bug fixes:

#### General Corrections

- Manual Mode Hamilton diluter station: It could happen that the syringes could not be controlled.
- CE 70 with buffer/collector batteries: It could happen that the start of an analysis failed.

## Release Note 2E (WinSOTAX EXE Version: 2.2.0)

### New Functionality

#### General:

- Implementation Biotek Uvikon XL driver.
- Implementation CE 70 with buffer/collector batteries.
- New possibility with Media Change to show calculation of %-Dissolved for each medium separately
- AT 7: New possibility to perform analysis also with manuel media change
- In the Recalc Function with manually changed Standard Monitoring values (concentration or factor) the original values are also shown in brackets.
- Extension of numbers of samplings from  $8 \times 100 = 800$  to  $8 \times 110 = 880$ .

### Bug fixes:

#### General Corrections

- Cell Grouping: Standard Deviation calculation was not correct.
- AT 70 driver: With the model AT 70*smart* the paddle speed in the cleaning cycle is increased to 250 RPM . With AT 70 this would result in an error message and therefore paddle speed remains at programmed speed of test method.
- Measuring with Perkin Elmer Photometer an absorbance  $> 3.0$  leads to a repetition of measurement.
- AT 7 double system: Before test start master waited for temperature of slave even slave didn't have functionality to deliver these values.
- Registration of a method with a double system leads sometimes to an incorrect method registration for the slave.
- Sometimes system crashes occurred during operation with Agilent 8453 photometer .

## Release Note 2D (WinSOTAX EXE Version: 2.1.2)

### New Functionality

#### General:

- Implementation of Agilent 8453 driver.
- Implementation of Unicam driver.
- Speed increase of Hamilton Dilutor drive
- Adaptation of Perkin Elmer driver for Lambda 25/35/45 series
- For multiple day tests the remaining time in the status window is now displayed correct

- Registration of analyses without entering a lot number are no longer possible

## Bug fixes:

### General Corrections

- Calculation of Q-Value +5% (Stage1) changed from relative to absolute
- AT 700 driver: The second media could' t be added by choosing "not diluted"
- Display error of test results with methods using Infinity Sampling
- Double system: Description of occurrence: Creation of a new version of a used method while this method was used in an as repetition registered analyses. Effect: The version number of the as repetition registered slave analyses was not updated automatically
- Double system: During Off-Line operation there was no temperature check of the slave device before test start.

## Release Note 2C (WinSOTAX EXE Version: 2.1.0)

### New Functionality

#### General:

- User can change password.
- Option to activate a forced password change after defined time intervals.
- Extension Beckman driver with function Cell Grouping.
- Calibration Tool: E11 value calculation is now also possible as mean of several determinations.
- Implementation of continuous flow of circulation pump at the AT system.
- Interval Time and Sampling Volumes can be entered with 1 digit. (except AT 700)

#### Report:

- Various optimizations of field sizes.

## Bug fixes:

### General Corrections

- AT 70 with BS 60: Several cleaning cycles were not executed.
- AT Double system: At test start there was no temperature check of the slave unit.
- The system stopped at baseline reading when an absorbance was out of specified range.
- Perkin Elmer spectrophotometer with 16-fold changer: Positions 14 to 16 were not approached.

## Release Note 2B (WinSOTAX EXE Version: 2.0.1)

### New Functionality

#### General:

- Implementation Kontron Driver with Cell Grouping.
- Implementation Shimadzu Driver.

## Release Note 2A (WinSOTAX EXE Version: 2.0.0)

### New Functionality

#### General:

- Implementation Cell Grouping.
- The Time Format for the Graphics can be alternatively set to the Format [min] or [dd:hh:mm].
- Possibility of automated Print out at Test end.
- Entering of Sampling Intervals with digits.
- Possibility of User Settings for the Graphic Properties.
- Standard Monitoring with just one reading per Analysis.

**Report:**

- A table (Raw Data, Absorbance, Concentration, %-Dissolved) can be reported with a form feed of up to three pages.

**Bug fixes:**

**General Corrections**

- With CE Systems was not possible to proceed a Time Start when Heater was switched of.

**Release Note 1H** (WinSOTAX EXE Version: 1.4.1)

**New Functionality**

**General:**

- Implementation of multi component analysis with two components.
- In the manual mode of the CE 70 it is now possible to control the Piston Pump CY 7-50 and the Splitter MS 70.
- Implementation of AT 70*smart* with Basket Station.
- E11-Values of recalculated analysis results will appear on the report.

**Bug fixes:**

**General Corrections**

- After the run of a CE Analysis it could happen that when trying to run the next Analysis an error message appeared.
- After opening the View Data window immediately a print out was processed and it happened that the absorbance results did not consider the tablet weight corrections. After a second print out the results where OK.
- Stirrer revolutions less than 100 RPM were not protocoled when using a AT Double System.

**Known Problem:**

- The WinSOTAX doesn't accept the time format AM / PM.

**Release Note 1G** (WinSOTAX EXE Version: 1.4.0)

**New Functionality**

**General:**

- Implementation AT 7 Double On/Off-Line System

**Report:**

- A table (Raw Data, Absorbance, Concentration, %-Dissolved) can be reported with a form feed of up to two pages.
- In the tables the data rows which should be reported are selectable. (All, every 2nd, every 3rd ... etc)

## Bug fixes:

### General Corrections

- Time Start on the followed day was not possible.
- With a CE 70 closed system the volume of the last sample was wrong.
- Using USP IV with placebo subtraction the calculation of %-Dissolved was wrong.
- After starting a Device Configuration which includes a CE Device, it could happen that the WinSOTAX program couldn't get shut down properly.
- When deleting analysis (Test Status = Waiting) which were registered as a repetition, the counter (2 of 5) was corrected for all the remaining analysis.

### Known Problem:

- The WinSOTAX doesn't accept the time format AM / PM.

## Release Note 1F (WinSOTAX EXE Version: 1.3.0)

### New Functionality

#### General:

- Implementation USP 4.
- Implementation ADS Drivers.
- Implementation Beckman Photometer Driver.
- Support of Perkin Elmer Photometer Lambda 12.
- Connected units at the AT Dissolution Tester (Circulation Pump, Valve Bloc and 3-Way Valve) switch after an analysis start to default positions.
- Method Definition: The entry field for Interval Times does not accept any longer decimal numbers.
- Entering of Sampling Volume in Decimal Numbers are shown correctly in the Report.
- The Function "Data Correction allowed" can be configured in "Expert Configuration -- Raw Data edit possible". Default deactivated
- The field " Data Correction allowed " in view data is hidden if the function is deactivated.
- The possibility to fill additional magazines during a batch run is running is implemented.
- During registration of new Analysis the Data can be copied from the last Analysis. This Function can be configured in "Expert Configuration - Copy of Registration Data Possible".
- The search dialogs for analysis and methods are improved.
- The Log File Viewer is improved.

#### Report:

- In the Statistic Information is shown next to Std. Deviation and additionally the Variation coefficient.
- In the "Sampling Band" the total time is shown additionally.
- In the "Standard expanded Band" the wavelength is shown additionally.
- Correction: When the "Run Protocol Band" was not in use, anyway the information for Media 2 and 3 were appearing on the Report.
- Number of Samplings: There is no form feed within a table possible. To minimize this problem the line distance is adjusted dynamically to the letter character. This means as smaller the letter character as more samplings can get placed.

## **AT 70 System**

- During rinsing the tubing for a new Medium (Full Change, Media addition) an additional valve is switched to waste Position.
- Improved control of the Analysis Start command.
- Possibility of changing the filter after a medium change

## **Bug fixes:**

### **General Corrections**

- Time Start on the following day was not possible.
- After deleting all users and generating them new, the login was not working.
- Data entering in fields with spin controls could cause a problem. The problem appears when controlling the spin controls with the mouse and the cursor was not set into the field.
- Report Definition: After a preview the Preview Button didn't get active anymore.
- Manual Mode AT: The manual commands "up/down" from the sampling device was mixed up.
- When closing the Batch Processing window during a running analysis it could happen that the Analysis Status got set to waiting even when the Analysis run was still in process.
- The user right "View Data" couldn't get locked.
- Placebo Subtraction: If the measured absorbance value of the second wavelength was exactly 0.000000 the calculation of % Dissolved failed.
- On-line analysis with Standard Monitoring and Placebo Subtraction were not possible. This fault is corrected for systems with Perkin Elmer Photometer.
- AT 70 System with Dosage Volume Control: After the test end the temperature protocol was stopped to late.
- Using Windows NT: It happened sometimes that an Error Message appeared "IO-Error 32". (Purpose: Internal Error of the operating System that a entry in the Log File couldn't get written).
- Using Windows NT: After starting of more than two Device Drivers it could happen that the WinSOTAX Program couldn't get shut down properly.

### **Known Problem:**

- The WinSOTAX doesn't accept the time format AM / PM
- In the Report there is no form feed within a table possible.