i-Tree Suite Change Log (10/11/2010)

i-Tree Suite Version	Application Version	Improvements
V3.0.18	Eco v3.0.15	In project configuration setup, single quote and double quote now is prevented from entering in Location, Series fields
		Handled comma, dot, and blank in SAS output numeric values when loading data from Forest Service
		Added a function to check the duplicated species in SAS output files when loading data from Forest Service for reporting
		Delete button added In MDE
	Eco PDA Utility v3.0.12	Changed the distance to plot center to decimal
		Filtered out industrial landuse to match to MDW
	Streets v3.0.14	Fixed crash while trying to delete a large number of trees.
		Fixed incorrect calculation of # of Segments Sampled. Also fixed Zone editing/modification, and possible errors in Annual Benefits reports.
		Added Export Inventory options (CSV, & XML)
		Added online IPED updates.
		Added Footnote to Carbon Stored report.
		Renamed NetCarbonStorage sheet to CarbonStorage during export.
		Fixed opening of Stratum 3.4 based projects.
		Updated project format to include project versions and IPED dates.
		Fixed crash during reporting when an Null species code in encountered.
	Streets PDA v3.0.13	Used API to auto-detect storage device in backup form replacing previous hard coded storage device.
		Prevent Pocket PC from entering low power mode while GPS is running by reset system idle timer when GPS receives data
V3.0.17	Eco v3.0.14	Added Print Plot button in Sample Plot MDE
		Added Comments for trees in Sample Plot MDE

		Moved comments editing from plot notes to Tree notes internally
		Changed DS from integer to decimal
		Data loss for multiple page tree editing in MDE
	Eco PDA Utility v3.0.11	Fixed unknown species bug (unknown species detection)
		Refresh ground covers on PDA when retrieving data
		Solved DS decimal rounding issue when sending/retrieving data
	Eco PDA v3.0.11	Fixed inventory tree search
		Fixed Inventory/sample re-measurement status field
V3.0.16	Eco v3.0.13	Removed undesired post stratification
		Fixed location database (added missing table Temperature)
	Eco PDA v3.0.10	Changed "No Trees on Plot" to only modify actions menu, instead of disabling the "% Tree Cover" combobox and setting it to 0. Actions combobox menu will be modified when "% Tree Cover" > 0 and "No Trees on Plot" is not checked
	Eco PDA Utility v3.0.10	Changed PDA version check to 3.0.10
	Species v3.0.5	Fixed location database (added missing table Temperature)
		Resize suite version label to fit all version numbers
	Streets v3.0.13	Fix crash in Species Distribution report when there aren't at least 5 different species types in each zone
		Fix crash in Relative Performance Index report when there are no trees to report on
		The Manual is updated
V3.0.15	Eco v3.0.12	Input database changed Crownbase to limit 450, TreeHeightLiveTop limit to 450, TreeTotalHeight to limit 450, CrowWidth (EW,NS) limit to 300. MDE also changed accordingly.
		Ground Cover data input in MDE is changed to Grid.
		A new report table "Most Important Species" is added
	Streets v3.0.12	Added Central Florida climate region
	Species v3.0.4	Main form screen resized to have height compatible to 600 pixel screen
		Location database is now using a shadow database to avoid exclusive access

		violation
	Eco PDA v3.0.9	Constrain tree values to match input database rules
		Fix crash on nonalphabetic character in search box
	Eco PDA Utility v3.0.9	Unknown Species code checking is only applied to completed plots. The data for all uncompleted plots will remain the same in PDA application allowing users to edit for the second chance.
		Brought back the groundcovers editing form (which modifies input database now). The editing form will not allow edit the standardized ground covers. It allows to add/edit/delete customized ground cover with ground cover ID starting from 51.
		Switched ground cover editing grid to VSFlexGrid, which eliminated the occasional grid data invisibility to users
		PDA application version check is now conducted through a .NET method which directly retrieves the version from PDA application itself, eliminated the version inconsistency (previously it reads from version.txt file in PDA causing possible inconsistency). The .NET version checking method is contained in new MDBDAndS.dll.
V3.0.14	Eco PDA v3.0.7	Updated all version information to be consistent with Eco PDA Utility
	Eco PDA Utility v3.0.8	Removed "Import information from Location Database," "Add/Edit/Delete Additional Ground Cover Types," and "Populate Field Input Database with Cover Types" dialogs from the Project Setup tab. Necessary code runs automatically.
		Changed version check for PDA Application
V3.0.13	Eco v3.0.10	Fixed error "item not found in collection" in Sending data to Forest Service
		Added EAB susceptibility report
		In MDE, 13 pages limit of trees editing per plot is no longer exist.
		In MDE data editing, species editing now allows the toggle between species code, botanic name and common name
	Streets v3.0.11	Refresh current report after modifying annual costs.
		Fix crash that can occur upon running reports.
V3.0.12	Eco v3.0.9	
		Fixed data editing bug when species name starting with letter x

		Allow user to enter species for dead tree hardwood and dead tree softwood
		Fixed the bug in written report for international users when energy option is not available
		Includes updated Eco user's manual v3.1
	Eco PDA Utility v3.0.6	Use API to launch external applications, fixes Windows 7 Compatibility
		Fix Send Tree Data form to only show trees from current Eco project
		Add MACLASS/PICLASS (Dead unknown hardwood/dead unknown softwood) to species database on PDA; always send Species Database to PDA when sending configuration
		Alter Middle Database to accept species code of 8 characters
	Streets v3.0.10	Fix crash in Define Species dialog due to duplicate species codes with differing cases.
		Correct spelling of "short holes" to "shot holes" in Insect Signs options.
	Streets PDA v3.0.10	Add GPS API option to support buggy GPS devices.
		Allow GPS Direct entry after Start GPS fails.
	Storm v3.0.4	Fix incorrect PDA application version issue.
V3.0.11	Streets PDA v3.0.9	Fix crash upon save due to a bug in .Net CF
		Correct display of the Comment panel on square displays.
		Clear all held location fields upon clicking the Clear Location button.
		Store the averaged GPS coordinate values rather than the last received values.
V3.0.10	Eco v3.0.8	Fixed the issue with species code "none" when loading reporting data from forest service
	Streets v3.0.8	Refresh current report after importing records from the PDA.
	Streets PDA v3.0.8	Fix potential crash upon exit.
		Fix high-resolution display issue with Comment box.
V3.0.9	Eco v3.0.7	fixed read only issue for species and location databases

		fixed naming issue for chart "Carbon Sequestration Density by Land USE"
		fixed plot size issue in page 21 of report writer
		fixed ordering issue in input data editing
	Streets v3.0.7	Display unmatched species codes in uppercase on reports.
		Add validation for GPS coordinates.
		Prompt for unmatched species codes after importing data.
		Only allow a record to be duplicated at most 9999 times.
		Update RPI report to use Condition factors.
		Correct the Population Summary report.
		Add pest common name to Inventory Details form.
		Remove duplicated summary lines from pest summary reports.
		Correctly import SurveyorID as a String and not an Integer.
		Updated sample project.
		Implement new IPED protocol.
	Streets PDA v 3.0.7	Return to the Edit Tree form after editing a tree.
		Ensure changes are made only when the user has made them.
		Add Pest common name selection field.
		Update pest tabs for new IPED protocol.
		Correct display issues as a result of modifications added for square displays.
		Correctly handle canceling an edit of Pest data.
		Fix bug in GPS control resulting in data loss.
		Update GPS control to accept GPS coordinates in either +-Decimal Degrees or Decimal Degrees + Direction.
		Display invalid GPS coordinates to the user in the status pane.
		Display previously recorded GPS coordinates to the user when the GPS is ready to capture.
	Storm v3.0.3	Export Rural indicator as Y/N rather than yes/no.
		Correct Standard Error estimates provided by the template.
		Ensure rural trees are counted separately from all other trees.

		Correct tree removal estimates on the Post Analysis sheets.
		Extrapolate tree estimates on the Post Analysis sheets where possible.
		Correct the Brush Adjust lookup table to match the descriptions.
		Add Standard Error estimates for debris estimates.
V3.0.8	Eco v3.0.6	Community Map is brought back available
		Adding plots loop is changed to more intuitive way
	Streets v3.0.6	Corrected extrapolation for sample inventories for Pest, Maintenance, and Conflict reports.
		Moved report generation to its own thread. Removes race condition in user interface thread.
		Replaced Site Type reports.
		Replaced Other reports.
		Replaced Land Use reports.
		Replaced Pest Summary reports.
		Clarified report headers of all new reports.
		Updated export of Site Type, Other, and Land Use reports for Excel.
	Eco PDA 3.0.5	Added backup functionality
V3.0.7	Eco v3.0.5	Added 'Pack Project' sub menu in 'File' menu for data sharing
		If the input database and estimate database are not found in opening a project, it pops up file dialog box for browsing.
		Fixed a bug in table of Leaf Area and Biomass For Trees by DBH and Landuse
V3.0.6	Streets v3.0.5	Replaced Conflict reports.
		Replaced Maintenance reports.
		Fix crash while trying to delete existing Zones
		Mark all zones with errors on User Define Fields dialog
		Fix compatibility issues with Microsoft Excel 2007.
		Display the correct zone for the Pest Summary report.
		Fix crash in Species dialog for LoMidWXXX region.
		Fix crash upon opening the User Define Fields dialog as a result of a .Net bug.
	Streets PDA	Add support for square displays.

	v3.0.6	
	Eco v3.0.4	Fix the "." Issue in the SAS output file
V3.0.4	Streets v3.0.3	Skip recording of DBH for non-trees.
		Abort export of reports if Excel is not installed.
		Replace charts in reports with place holder if Excel is not installed.
		Refresh current report after modifying benefit prices, city info, or annual costs.
		Refresh current report after switching between English to Metric or Common to Scientific modes.
		Add Pest Symptom Details reports.
		Fix crash while trying to modify the Average Home Resale's Value
		Fix crash in exporting Maintenance Summary reports.
		Use correct units during export of Canopy Cover report.
		Correct chart displayed on exported Canopy Cover report.
		Display correct charts for Site Type reports.
		Fix graph displayed on Canopy Cover report.
		Correct tree types displayed on Population Summary report.
	Streets PDA v3.0.4	Skip recording of DBH and default Primary Pest field to None for non-trees.
	Eco v3.0.3	Save Plot Size to series table's DefaultSubPlotSize field (this was not being saved anywhere.) Because this is by series and not year, if they modify the previous series DefaultSubPlotSize in PlotGenerator, they are prompted and informed that the size is by series and asked if they are sure that they want to change this.
	Eco PDA v3.0.4	Crash bug fixed when saving an edit without Hydro Option enabled
		Stem Edit button corrected, was referencing Tree ID in the query instead of Stem ID.
	Eco PDA Utility v3.0.4	(Grabbing Plot Size) First check if subplot exists, if it does get size from subplot. If no subplot, check DefaultSubPlotSize. If DefaultSubPlotSize is not -1 (default value,) then use default plot size of .1 or .04 (metric or English units).
V3.0.3	Eco V3.0.2	MDE: added dead tree status (R, H, C, L) data validation. Set Total Height (-1), Live Top (-1), Crown base height (-1), Crown width (N/S & E/W) (-1), Crown missing (100), Crown Dieback (100), Crown Light Exposure (-1), % Impervious Below Crown

		(-1), % Shrubs Below Crown (-1) to the default values
		Added suite version and app version in the About screen
		Added the rule: when a tree is added, tree status can only be "O". When a tree is edited, "O" can be changed to other status.
		Fixed a species record (SubGenus=x Cupressocyparis) in SubGenus table in species database
		Fixed the crash if DR and DS are empty
		Enable "Collected Data Permanent" in Inventory to let users set remeasurement on trees
		Allow PDA dead tree values in sample mode
		Use user's temp folder for 64 bit computers
	Eco PDA Utility v3.0.3	Updater set to check suite version
		Check for Wow64 and install appropriate device center on Vista
		Properly Remove completed plots from Pocket PC
		Add suite and app version info to splash/about form
	Eco PDA App v3.0.3	Fixed some bugs for GPS
		Added a "Direct Entry" button for manual entering of GPS coordinates
	Streets v3.0.2	Removed requirement of CityManaged field for existing Stratum projects
		Strip spaces from column names in Stratum_Inventory format
		Fix floating New button on Define Species dialog
		Add i-Tree Suite version to About form
		Fix reporting after creating a new project and then immediately importing data
		Prevent importing of Stratum_Inventory format if no SpCode column is present
		Ignore records whose species code is NULL or an empty string during import
		Correct species code comparison bug in Stocking Level report
		Ensure data sent to the PDA still exists in the project if it was modified and re-add it if necessary
		Refine entire reporting interface and prevent the application from crashing while

		running a report
		Fix an index out of bounds issue in Maintenance Top 5 report
		Correct issues in the Species Distribution report and the Canopy Cover reports when there is no data to report on
		Auto refresh the current report whenever the user modifies data and remove the refresh button
		Updated default list of species codes for various regions. Reconciled species code inconsistencies for Streets
		Fixed reporting issues when projects were initiated with one tree.
	Streets PDA App v3.0.3	Fixed some bugs for GPS
		Added a "Direct Entry" button for manual entering of GPS coordinates
	Storm v3.0.2	Save template as "Excel Workbook"
		Set file attributes to normal after copying the template
		Add suite version to about screen
		Updater set to check suite version
	Species v3.0.3	Add suite version
		Updater to check suite version
	Vue v3.0.2	Adjusted About screen and added suite version
		Added "Loss!": indicator appearing at wrong times on Developed, Classes Tree % change form
		Fixed run-time error via a Data Type mismatch on Developed, Classes Tree % change form