

# RoadMatcher Version History

## Version 1.4

---

**Release Date:** January 20, 2005

### ***Functionality Improvements***

- Segment Info window, displaying a subset of attributes when the mouse hovers over a segment, or a row is selected in the Query window
- Revert To Original Segment tool – an alternative tool for “unsplitting” a segment
- CreateThemingLayerPlugIn#scale method, for enabling a style only within a given scale range

## Version 1.3.4

---

**Release Date:** December 22, 2004

### ***Bug Fixes***

- Fixed bug in LocationOfPoint#locateAfter, #indicesOf.

## Version 1.3.3

---

**Release Date:** December 7, 2004

### ***Bug Fixes***

- Revert All now successfully reverts “bad” split nodes. Also truncates undo history to prevent creation of “bad” split nodes in the first place.

## Version 1.3.2

---

**Release Date:** November 12, 2004

### ***Functionality Improvements***

- Statistics report now includes: AutoMatched, Manually Matched, AutoAdjusted, Manually Adjusted, Unadjusted. Lengths are also reported.
- New conflation attributes: Update Time, Reviewed
- New right-click menu items: Mark As Reviewed, Mark As Unreviewed.
- RoadMatcher Select tool: [Shift] can now be used to add to the selection.
- Dropped 256-character restriction on Issue Log descriptions and comments.
- Comments may be attached to multiple segments by selecting them first.
- Added queries for Matched (Ref), Matched (Non-Ref), Standalone, Comments

## ***Bug Fixes***

- Fixed: RoadMatcher sometimes hangs when creating an Issue
- Fixed: Create Issue Log seemed to "attach" to adjacent segments

## **Version 1.3.1**

---

**Release Date:** November 2, 2004

## ***Functionality Improvements***

- New conflation attribute: Match Orientation
- Tools > Statistics menu for generating HTML report of statistics, including average Nearness weighted by segment length

## **Version 1.3**

---

**Release Date:** October 29, 2004

## ***Functionality Improvements***

- Ability to add new Views to the Query window
- New distance metrics: Max Distance, Trimmed Distance, Nearness
- Improved matching of looping roads
- Updated JUMP version, which (1) includes Split LineStrings Tool and Node LineStrings Tool (2) exposes z-values in Vertices In Fence, Feature Info, View Attributes, and Edit WKT Dialog

## ***Profile Changes***

- Predefined Segment Comments
- Flag to control whether Segment Comments are Read-Only
- Nearness tolerance

## ***Data Model Changes***

- Added TrimDist, Nearness
- Renamed MatchDist to MaxDist

## ***Bug Fixes***

- Match distance is now always updated when segments are adjusted
- Fixed: ShapefileReader was failing to read some columns in the Bridges datasets. (Fixed by upgrading to JUMP 1.1.3-RC2).

## Version 1.2.1 alpha2

---

**Release Date:** October 26, 2004

### ***Functionality Improvements***

- Ability to add new Views to the Query window
- New distance metrics: Max Distance, Trimmed Distance, Nearness
- Improved matching of looping roads
- Updated JUMP version, which (1) includes Split LineStrings Tool and Node LineStrings Tool (2) exposes z-values in Vertices In Fence, Feature Info, View Attributes, and Edit WKT Dialog

### ***Bug Fixes***

- Match distance wasn't getting updated when segments were adjusted

## Version 1.2.1 alpha1

---

**Release Date:** October 12, 2004

### ***Bug Fixes***

- Fixed: ShapefileReader was failing to read some columns in the Bridges datasets. (Fixed by upgrading to JUMP 1.1.3-RC2).

## Version 1.2

---

**Release Date:** October 1, 2004

### ***UI Improvements***

- In Result/Options/Source Attributes tab, list of included attributes shows selected attributes from both datasets.

### ***Functionality Improvements***

- Generate Result Layer: for QA purposes, allow specifying whether to include Retired and Matched (Non-Reference) segments
- Vertex Transfer: if transferred vertex would come close (i.e. within the minimum segment length) of an existing vertex on the target dataset, just transfer the z-value to the existing vertex.
- CoordinateList view: display z-values, to facilitate QA'ing of vertex transfer
- Issue Log: output as GML rather than Shapefile

### ***Bug Fixes***

- Fixed: Vertex Transfer was modifying z-values on the networks.

## Version 1.2 alpha 1

---

**Release Date:** 27 September 2004

### **Semantics Changes**

- Exclude result options from profile locking

### **Functionality Improvements**

- Match Selected Segments menu item
- Create Theming Layer menu item
- Rearrange menu items
- <onSessionLoad> tag in profile for BeanShell code e.g. creating theming layers
- Handle input dataset with same attributes as RM attributes
- Display script errors to the user in a dialog
- Find Overshoot Segments function
- Ensure field names in DBFs are in upper case
- Edit Segment Comment right-click menu item

### **Bug Fixes**

- Fixed: Move Split Node Tool: Assertion Failed Exception when undo then redo
- Fixed: manifest.xml: Null Pointer Exception when empty tags were omitted
- Fixed: Null Pointer Exception when redoing Revert after redoing Delete Split Node

## Version 1.1.3

---

**Release Date:** 7 September 2004

### **Functionality Improvements**

- Improved the path matching by matching more likely paths first
- Shifting segments with one connected end -- additional constraint: segment must be less than twice the "segment adjustment length"
- Revert All tool (activated by pressing Ctrl with the Revert Tool)
- Dashed line for Standalone segments
- Move Endpoint adjustment method (requested by Duncan Richards)
- Added a parameter to *exportresult* to allow setting the name of the session

### **Bug Fixes**

- Improved the placement of split nodes, to eliminate a problem causing large match distances
- Fixed a problem causing segments to be incorrectly identified as standalone
- Fixed: Match/Commit does not allow matching when dragged over 3 roads even if one is retired.

## Version 1.1.2 alpha1

---

**Release Date:** 13 August 2004

### **Semantics Changes**

- *Maximum Segment Angle Delta* used to always apply to the entire segment. Now it applies (1) to the entire segment if Warp Entire Segment is chosen (the default), or (2) to the adjusted portion of the segment if Warp Partial Segment is chosen.

### **Functionality Improvements**

- Version check for conflation sessions, implemented using the Java serialization mechanism
- *Revert All In Fence* function
- *Conflation Options* button added to AutoConflate dialog
- § Added AutoAdjust constraint: max length: 2×, min length: ½
- Add option for AutoAdjust behaviour for length-limited warping (for example, up to 20 m of a segment)

### **Bug Fixes**

- Fixed: Tooltips sometimes show incorrect title.
- Fixed: In some cases, AdjustEndpointTool would incorrectly report "No segments here"
- Fixed: Geometry altered during matching.
- Fixed: Spurious inconsistencies are sometimes displayed.

## Version 1.1.1

---

**Release Date:** 3 August 2004

### **Functionality Improvements**

- AutoMatch and AutoAdjust menu items combined into AutoConflate menu item
- AutoAdjust status reported on progress dialog

### **Bug Fixes**

- Fixed: Geometries modified during AutoMatching
- Fixed: NullPointerException when opening Legend toolbox
- Fixed: AutoConnectEndpointTool wasn't handling cul-de-sacs properly ("Matrix is singular" exception)
- Fixed: Assertion failure when clicking instead of dragging AdjustEndpointTool
- Fixed: AssertionFailedException when deleting a split node from a cul-de-sac

## Version 1.1.0

---

**Release Date:** 22 July 2004

### ***Functionality Improvements***

- Faster result-state update (back to alpha-9 speed)

### ***Bug Fixes***

- Fixed InvalidClassException when loading a session created in an older RoadMatcher
- During autoconflate utility's AutoAdjust step, result states were incorrectly computed *after* all iterations rather than *between* iterations

## Version 1.1.0 alpha 10

---

**Release Date:** 20 July 2004

### ***Functionality Improvements***

- Debugging output will no longer appear in production cmd-line functions
- Improvement to consistency check: standalone collapsing at 4-way non-reference intersections
- Improvement to consistency check: determining relative orientation of matched segments

### ***Bug Fixes***

- Segment result state is now updated correctly for all topology situations
- Match Paths now works correctly on paths with one or two segments

## Version 1.1.0 alpha 9

---

**Release Date:** 9 July 2004

### ***Functionality Improvements***

- Revised path-splitting algorithm
- Command-line tools: autoconflate and exportresult
- Shorter column names in exported shapefiles
- Prompt to "Lock Profile" when saving a profile
- Manual Adjustment Count

### ***Bug Fixes***

- Save Profile now saves custom issue-log descriptions
- Export Result dialog now remembers last directory used

- Manually Matched and Manually Adjusted flags were not being triggered in rare cases

### ***API Changes***

- Cleaner XML structure for manifest.xml and \*.rmprofile. Note that <dataset0> is now simply <dataset>.

## **Version 1.1.0 alpha 8**

---

**Release Date:** 21 June 2004

### ***Functionality Improvements***

- Validation: unmatched node constraints
- New Session wizard: layer colour-blocks
- Deriving session name from source-package filename
- Improved Standalone detection
- Iterated automatching increases the number of matches & standalone segments detected

### ***Bug Fixes***

- Workaround for Java 1.4 bug: menus sometimes vanish unexpectedly

## **Version 1.1.0 alpha 7**

---

**Release Date:** 8 June 2004

### ***Functionality Improvements***

- Issue categories can be specified in Profile.
- Postpone/Restore Inconsistency
- Prompt for AutoMatch/AutoAdjust after importing a source package

## **Version 1.1.0 alpha 6**

---

**Release Date:** 3 June 2004

### ***Functionality Improvements***

- Node constraints (specified in source package or New Session dialog)
- Context layers (specified in source package)
- Create Split Intersection Tool moved to right-click menu and renamed to Create Intersection SplitNode
- Added Manual Match, Manual Adjustment flags to conflation attributes
- Added Run AutoMatch/AutoAdjust to New Session wizard

### ***Bug Fixes***

- Fixed: after Move Split Node operation, states were incorrect
- Fixed: orientation could get flipped during Move Split Node and Delete Split Node operations

## **Version 1.1.0 alpha 5**

---

**Release Date:** 27 May 2004

### ***Functionality Improvements***

- Move Split Node Tool
- Create Split Intersection Tool
- Include Result Options in Profile

### ***Bug Fixes***

- NotSerializableException when saving a session
- auto-generation of short names: suffix-removal wasn't working for 2<sup>nd</sup> name

## **Version 1.1.0 alpha 4**

---

**Release Date:** 14 May 2004

### ***Performance Improvements***

- Sped up result-state update by 10x

### ***Bug Fixes***

- Query Toolbox: buttons were disabling unexpectedly

## **Version 1.1.0 alpha 3**

---

**Release Date:** 14 May 2004

### ***UI Changes***

- “Source Datasets Invalid” warning label
- Separated Conflation Options from Application Options

### ***Functionality Improvements***

- AutoAdjust
- Import Source Package
- Export Result Package
- Generate Adjustment Vectors
- Added QA check for invalid geometry



## ***Bug Fixes***

- New Session wizard: profile selections weren't updating enable-state of Next button
- Exceptions when no task open and user clicks the RoadMatcher menu
- Session name wasn't appearing in title bar
- ClearPathsPlugIn: AssertionFailedException in RenderingManager when no paths ever drawn

## **Version 1.1.0 alpha 2**

---

**Release Date:** 4 May 2004

### ***UI Changes***

- New Session wizard
- Result menu functions (Options, Generate Result Layer, Save Package)

### ***Functionality Improvements***

- Conflation profile
- added Warp Selected Vertices adjustment method
- Adjustment constraints
- Precedence rules (default, script, class)
- Improved result attributes: added Adjusted, Source, splitFrom, splitTo attributes, only store one set of conflation attributes; allow user to select which source attributes should be exported

### ***Performance Improvements***

- Exceptions in Automatching are now caught and process is allowed to continue, to maximize numbers of matches

## **Version 1.0**

---

**Release Date:** 31 Mar 2004

## **OLD Version 1.1.0 RC-2**

---

**Release Date:** 25 Mar 2004

### ***Semantics Changes***

- AutoConnectEndpointTool: always use Warp Locally adjustment method rather than current adjustment method – safer because current adjustment method may be Shift Segment

### ***Functionality Improvements***

- Define Paths Tool: don't allow non-Unknown segments to be added to path

- new: Clip / Extend Segment adjustment method
- vertex-transfer options in ExportResultPlugIn
- replaced "Matrix is singular" with friendlier error message
- dropped Test menu

## ***Performance Improvements***

### ***Bug Fixes***

- AdjustEndpointOperation: AssertionFailedException when insert vertex, autoconnect, then undo
- AdjustEndpointTool: can't grab endpoint if in envelope of another feature that's selected

## ***API Changes***

## **Version 1.1.0 RC-1**

---

**Release Date:** 19 Mar 2004

### ***Semantics Changes***

- Export Result menu item: don't prompt user for filename; user will use File / Save Dataset instead.
- Export Result menu item: allow more than one Result layer to be generated

### ***Functionality Improvements***

- Adjust Endpoints Tool: gesture: immediately drag endpoint, rather than swiping the road segment first
- Adjust Endpoints Tool: new adjustment method: Shift Segment
- Views tab: three new colour schemes
- Views tab: alternative intersection symbols: square, triangle, X, none
- Views tab: node-size can be chosen
- Views tab: Highlight Unknown, Highlight Inconsistent, Highlight Included
- Split Tool: nodes intersections
- Split Tool: auto-move splits that would create short line segments
- New Session menu item: prompts user if session exists
- new: Define Paths Tool, Match Paths menu item
- Issue Log for entering comments
- preferences-file errors on startup: log silently rather than exposing to user

## ***Performance Improvements***

### ***Bug Fixes***

- Path Match Tool: now obeys AutoMatch parameters

- Path Match Tool: wasn't updating result states
- Path Match Tool: confusing error message: "Fewer than 1 road segments here"
- pink Inconsistent markers were sometimes not shown

## ***API Changes***

## **Version Alpha 9**

---

**Release Date:** Feb 24 2004

- New editing tools: add/remove/move vertex
- Colour schemes on the View tab
- QA: Coincident Edges layer appears (when applicable) after creating a new session
- Matching tools: enter "precise-match" mode by clicking 1 segment instead of swiping 2
- Improved New Session dialog
- Legend window
- Options dialog: button to turn all confirmation dialogs back on
- Query window
- Map tooltips turned on by default