

Interactive Highway Safety Design Model (IHSDM)

User Properties and Defaults Manual

Developed for
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1. Properties

The IHSDM software supports properties to control the runtime behavior of the system. The properties are assigned values in either of two property files: the system property file (**ihsdm.props** in the system home directory) or the user's property file (**ihsdm.USERID.props** in the user's IHSDM home directory). There are three basic categories of properties:

- System properties - these properties are assigned values in the file **ihsdm.props** in the system home directory. The IHSDM Configuration Utility normally sets these properties. These properties have the same value for all users of the configuration. Refer to the Installation Manual for details about the system properties.
- User properties - these properties are set in the **User Properties** dialog in a safety analysis module and stored in the user's properties file.
- User default values - these properties are set in the **Default Values** dialog in a safety analysis module and stored in the user's properties file.

2. User Properties

User properties are assigned values in the file **ihsdm.props** in the user's IHSDM home directory. The user properties are normally set by the **Edit | Edit Properties** menu item in the IHSDM main (Master) window. In addition, individual IHSDM modules may have properties. The module specific properties are maintained in the user's properties file. With a few exceptions, the value of any property in a user's property file will override the value of the property set in the system properties file.

2.1 User Properties Dialog

This dialog allows you to modify the value of a number of user properties. The user id and user home directory can be viewed but not changed with this dialog. These properties are saved in the file 'ihsdm.props' in the user run directory. The **User Properties** dialog includes the following tabs: General, Data Entry, Display, Reporting, Executables, Identification and Directories. The **User Properties** dialog includes the following widgets: Help, Save and Cancel.

2.1.1 Tabs

The User Properties Dialog includes the tabs described in the following sections.

2.1.1.1 General Tab

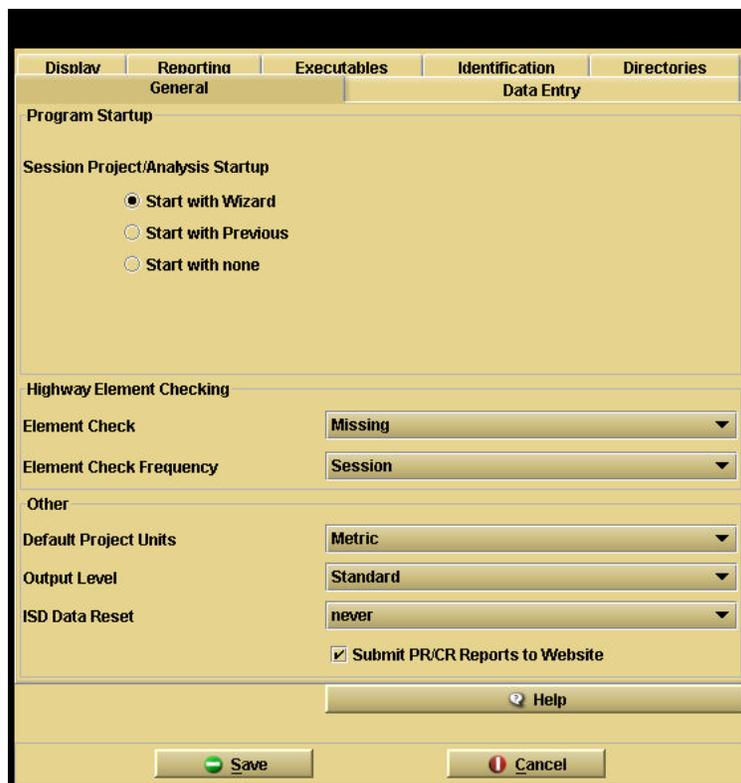


Figure 1 General Tab

The **General** tab includes the following widgets: Session Project/Analysis Startup, Element Check, Element Check Frequency, Default Project Units, Output Level, ISD Data Reset and Submit PR/CR Reports to Website.

- **Session Project/Analysis Startup** - Widget type: radio button. **Property name:** `ihsdm.analysis.startup`. This property controls how the system starts a new session. If the option *Start with Wizard* is selected, the project/analysis/highway selection wizard is used at system startup. If the option *Start with Previous* is selected, the project/analysis/highway from the previous session is restored. If the option *Start with none* is selected, the session is started with no current project/analysis/highway. The enumeration values are:
 - **Start with Wizard** (start the session with the project/analysis/highway selection wizard),
 - **Start with Previous** (start the session with the project/analysis/highway selected in the previous session) and
 - **Start with none** (start the session with no project/analysis selected).
- **Element Check** - Widget type: combo box. **Property name:** `ihsdm.element.check`. This property specifies which class of highway elements are queried during the analysis. The enumeration values are:
 - **None** (don't query for highway data elements),
 - **Missing** (query for required highway elements with missing segments) and
 - **All** (query for all required, non-alignment, highway elements).

- **Element Check Frequency** - Widget type: combo box. **Property name:** `ihsdm.element.check.frequency`. This property specifies the frequency of the highway element queries. The enumeration values are:
 - **Session** (query for a highway element once per session),
 - **Module** (query for a highway element once per safety analysis module) and
 - **Always** (query for a highway element each time it is required).
- **Default Project Units** - Widget type: combo box. **Property name:** `ihsdm.default.units`. This value is used as the default unit system (referenced as 'user default') used for all new project definition. Changing this value does not change the unit system of any existing project. The enumeration values are:
 - **Metric** (Metric unit system) and
 - **English** (English (Imperial) unit system).
- **Output Level** - Widget type: combo box. **Property name:** `ihsdm.output.level`. The value of this item controls the level of output generated by the system. If the value of the item is *Debug*, additional information of a diagnostic nature is generated by the system. Specifically, the DCM, CPM and DVM will generate CSV spreadsheet files with diagnostic information. The enumeration values are:
 - **Standard** (standard user level output) and
 - **Debug** (developer level, extra diagnostic).
- **ISD Data Reset** - Widget type: combo box. **Property name:** `ihsdm.isd.reset`. The value of the item specifies when intersection sight distance data associated with each intersection leg is reset by the software. The ISD data can always be manipulated by user using the intersection editor. The enumeration values are:
 - **never** (ISD data for an intersection leg is never reset),
 - **new session** (ISD data for an intersection leg is reset when the project and/or analysis is changed) and
 - **new invocation** (ISD data for an intersection leg is reset for each safety analysis invocation, e.g., a CPM run analysis).
- **Submit PR/CR Reports to Website** - Widget type: check box. **Property name:** `ihsdm.auto.prcr.submit`. This property controls what happens when new PR/CR is created. When enabled, the PR/CR HTML form is filled out and displayed in the browser. When disabled, the PR/CR GUI form is filled out and displayed. An option to submit it to the website is provided.

2.1.1.2 Data Entry Tab



Figure 2 Data Entry Tab

The **Data Entry** tab includes the following widgets: Data Entry Units System and Invalid Text Input Behavior.

- **Data Entry Units System** - Widget type: combo box. **Property name:** `ihsdm.dialog.units`. This item specifies the unit system (Metric/English) used for data entry when a dialog is first rendered. Four options are available.
 - *Same as data* starts dialogs in the same data entry unit system as the data. Data is generally maintained in the project units system.
 - *Same as project* starts dialogs in the same data entry unit system as the project.
 - *Metric* starts dialogs data entry in the Metric unit system.
 - *English* starts dialogs data entry in the English unit system.

The value of this item is only used when a dialog is first created. The data entry unit system of any active dialog can be changed using an option on the label-area *Right-Click* popup menu. The enumeration values are: **Same as data**, **Same as project**, **Metric** and **English**.

- **Invalid Text Input Behavior** - Widget type: radio button. **Property name:** `ihsdm.invalid.text.field`. This property controls what happens when invalid data is entered in a text field widget. The enumeration values are:
 - **Revert to Valid Data** (revert the valid of the text field to the last valid text, if available),
 - **Clear** (clear the invalid data),
 - **Beep** (beep and revert to the last valid data) and

- **Dialog** (display an error dialog and revert to the last valid data).

2.1.1.3 Display Tab

The **Display** tab includes the following sub-tabs: General, Base Text, Status Box, List Box, More Colors and Toolbar. The User Properties Dialog includes the tabs described in the following sections.

2.1.1.3.1 General Tab

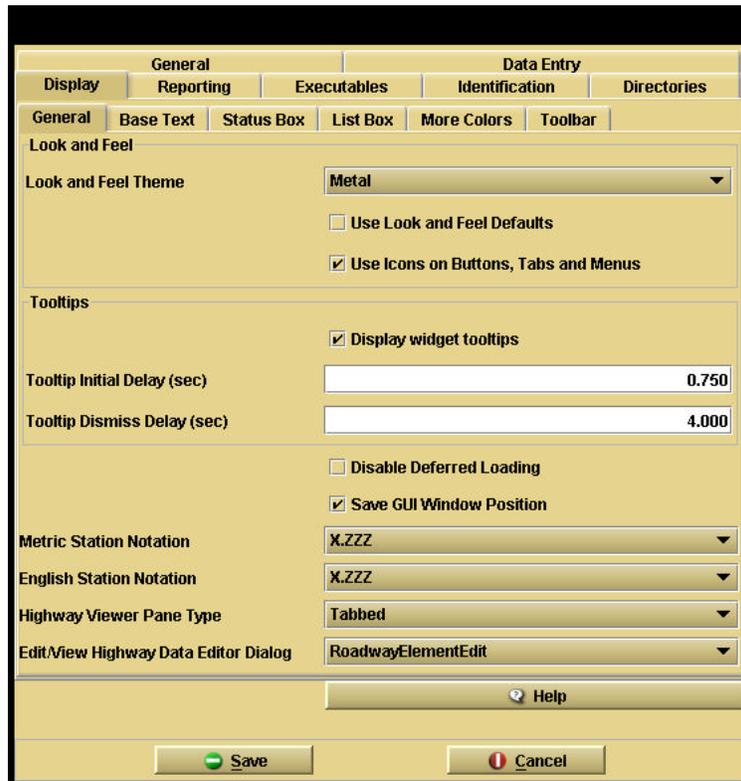


Figure 3 Display/General Tab

The **General** tab includes the following widgets: Look and Feel Theme, Use Look and Feel Defaults, Use Icons on Buttons, Tabs and Menus, Display widget tooltips, Tooltip Initial Delay, Tooltip Dismiss Delay, Disable Deferred Loading, Save GUI Window Position, Metric Station Notation, English Station Notation, Highway Viewer Pane Type and Edit/View Highway Data Editor Dialog.

- **Look and Feel Theme** - Widget type: combo box. **Property name:** `ihsdm.look.and.feel`. This item specified the look and feel to be used for the Graphical User Interface (GUI). Note: a change to the look and feel is not effective until the next time IHSDM is invoked. The enumeration values are: **Metal** (standard Java look-and-feel), **CDE/Motif** (Unix-like look-and-feel), **Windows** (Windows-like look-and-feel), **Kunststoff**, **Next**, **Metouia**, **Gtk**, **Aqua**, **BBJ**, **beOS**, **Luna**, **macOS** and **Modern**.
- **Use Look and Feel Defaults** - Widget type: check box. **Property name:** `ihsdm.use.desktop.defaults`. This item enables/disables the use of the default look and feel colors and fonts. **Note:** a change to this item is not effective until the next time IHSDM is invoked.

- **Use Icons on Buttons, Tabs and Menus** - Widget type: check box. **Property name:** `ihsdm.use.icons`. This item enables/disables the rendering of icons on buttons, tabs and menus. The icons are small pictures that appear on the tabs, menus and buttons. Note: Changing the state of this item does not effect the main window until IHSDM is restarted.
- **Display widget tooltips** - Widget type: check box. **Property name:** `ihsdm.display.tooltips`. This item enables/disables the display of tooltips. A tooltip is the small bubble that is displayed momentarily when the pointer is positioned over a widget. Note: Changing the state of this item does not effect the main window until IHSDM is restarted.
- **Tooltip Initial Delay** - Widget type: text field. Unit of measure: seconds. **Property name:** `ihsdm.display.tooltip.init`. This item is the tooltip initial delay, .i.e., the time from when the mouse stops over a widget until the tooltip is displayed. Note: Changing the state of this item does not effect the main window until IHSDM is restarted. The unit of measure for this item is seconds.
- **Tooltip Dismiss Delay** - Widget type: text field. Unit of measure: seconds. **Property name:** `ihsdm.display.tooltip.dismiss`. This item is the tooltip dismiss delay, .i.e., the time from display until the tooltip is dismissed. Note: Changing the state of this item does not effect the main window until IHSDM is restarted. The unit of measure for this item is seconds.
- **Disable Deferred Loading** - Widget type: check box. **Property name:** `ihsdm.disable.deferload`. This item enables/disables the deferred loading capability. Deferred loading is used on dialogs with many tabs or wizard panels (e.g., Edit/View Highway Editor and Polcny Edit) to speed-up the display of the dialog. The advantage is a faster display of the dialog, the disadvantage is a slight delay in rendering when a new tab or panel is selected. Disable this item only if the delay in selecting a new tab or panel bothers you.
- **Save GUI Window Position** - Widget type: check box. **Property name:** `ihsdm.save.frame.bounds`. This item enables/disables the saving of the position and size of the major GUI windows from one invocation of IHSDM to the next.
- **Metric Station Notation** - Widget type: combo box. **Property name:** `ihsdm.default.metric.station.notation`. The default station notation used as the initial station notation when creating new Metric system projects. The enumeration values are:
 - **X+YYY.ZZZ** (e.g., 23+234.980),
 - **X+YY.ZZZ** (e.g., 232+34.980) and
 - **X.ZZZ** (e.g., 23234.980).
- **English Station Notation** - Widget type: combo box. **Property name:** `ihsdm.default.english.station.notation`. The default station notation used as the initial station notation when creating new English system projects. The enumeration values are:
 - **X+YY.ZZZ** (e.g., 23+234.980),
 - **X.ZZZ** (e.g., 23234.980) and

- **X.ZZZZZZmi** (e.g., 4.400564mi).
- **Highway Viewer Pane Type** - Widget type: combo box. **Property name:** `ihsdm.road2d.pane.type`. This item controls the type of pane (window) used by the highway viewer. When the value of this item is `Tabbed`, the viewer pane contains tabs, with each highway view (plan, profile, cross section) on a tab. When the value of this item is `Simultaneous`, the viewer displays all views at once. The enumeration values are:
 - **Tabbed** (plan, profile and cross section display are each on a tab) and
 - **Simultaneous** (plan, profile and cross section display in a single dialog).
- **Edit/View Highway Data Editor Dialog** - Widget type: combo box. **Property name:** `ihsdm.roadwayedit.pane`. The value of the item specifies the name of the dialog to use when editing/viewing highway data. The enumeration values are:
 - **RoadwayElementEdit** (the default dialog with toolbar and embedded message area) and
 - **RoadwayElementEdit1** (the original dialog with popup dialogs for errors).

2.1.1.3.2 Base Text Tab

This group includes items that define the base text attributes used for the graphical user interface.

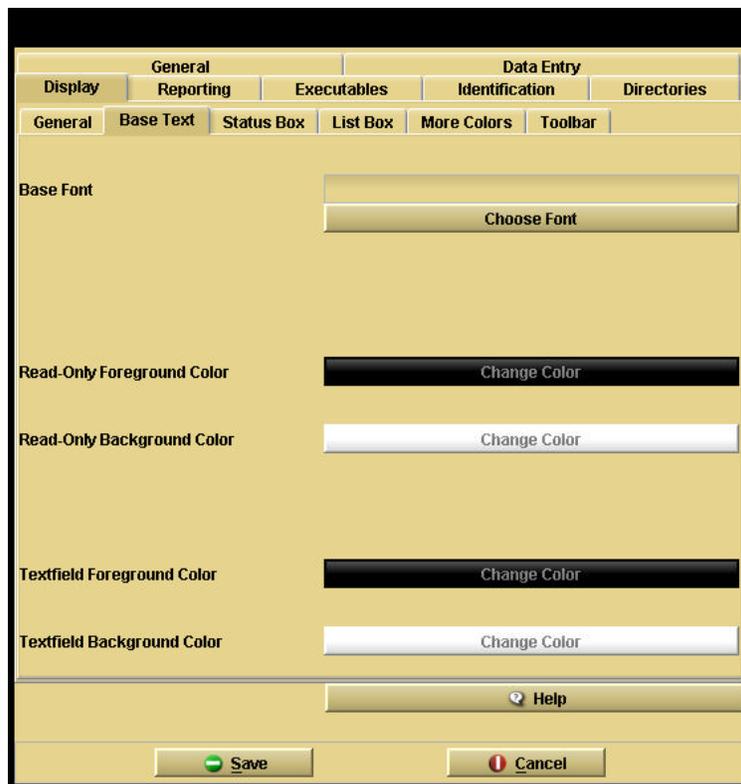


Figure 4 Display/Base Text Tab

The **Base Text** tab includes the following widgets: Base Font, Read-Only Foreground Color, Read-Only Background Color, Textfield Foreground Color and Textfield Background Color.

- **Base Font** - Widget type: text field (w/button) (read-only). **Property name:** `ihsdm.default.font`. The base font is used by the IHSDM graphical user interface for most widgets. This value is only referenced at system startup. This item is disabled

when the *Use Look and Feel Defaults* check box is enabled. Changes to this property have no effect until IHSDM is restarted.

- **Read-Only Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.readonly.fore`. This button allows the read-only foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Read-Only Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.readonly.back`. This button allows the read-only background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Textfield Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.textfield.fore`. This button allows the textfield/textarea foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Textfield Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.textfield.back`. This button allows the textfield/textarea background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.

2.1.1.3.3 Status Box Tab

This group includes items that define the status box attributes used for the graphical user interface.

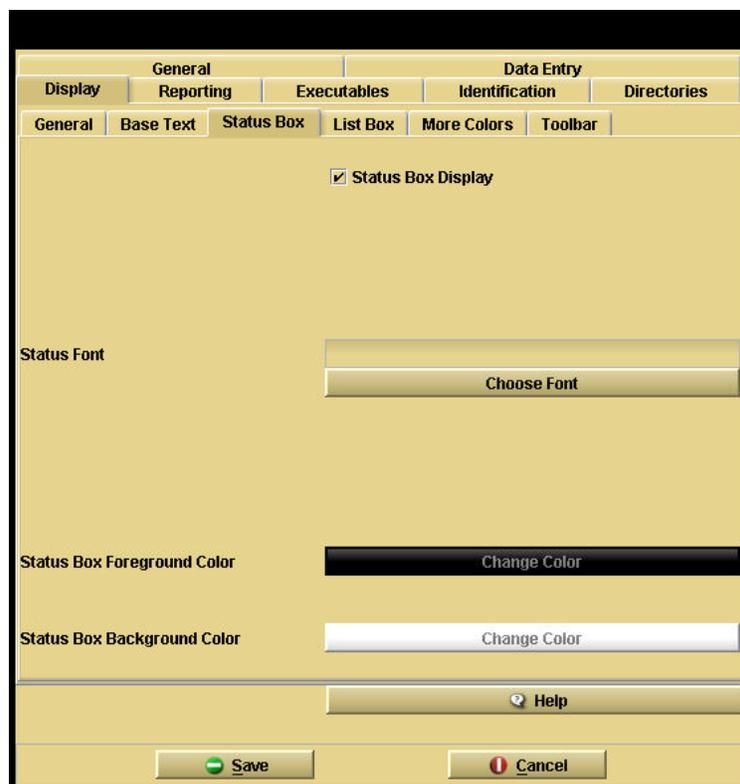


Figure 5 Display/Status Box Tab

The **Status Box** tab includes the following widgets: Status Box Display, Status Font, Status Box Foreground Color and Status Box Background Color.

- **Status Box Display** - Widget type: check box. **Property name:** `ihsdm.show.statusbox`. This property toggles the display of the status box. This property is referenced at system startup. Changes to this property have no effect until IHSDM is restarted.
- **Status Font** - Widget type: text field (w/button) (read-only). **Property name:** `ihsdm.status.font`. The default status box font name to be used by the IHSDM graphical user interface. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. This value is referenced on system startup. Changes to this property have no effect until IHSDM is restarted.
- **Status Box Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.statusbox.fore`. This button allows the status box foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Status Box Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.statusbox.back`. This button allows the status box background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.

2.1.1.3.4 List Box Tab

This group includes items that define the list box (table) attributes used in the graphical user interface.

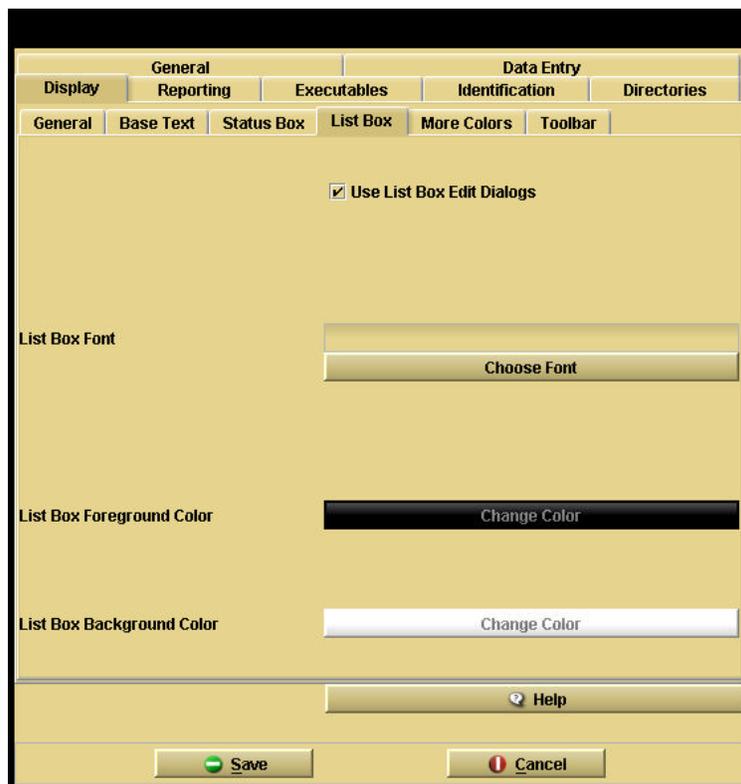


Figure 6 Display/List Box Tab

The **List Box** tab includes the following widgets: Use List Box Edit Dialogs, List Box Font, List Box Foreground Color and List Box Background Color.

- **Use List Box Edit Dialogs** - Widget type: check box. **Property name:** `ihsdm.use.listbox.dialog`. This toggle controls whether list boxes use a dialog for add/edit operations or editing is permitted within the list box.
- **List Box Font** - Widget type: text field (w/button) (read-only). **Property name:** `ihsdm.table.font`. The default list box font to be used by the IHSDM graphical user interface. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. This value is referenced on system startup. Changes to this property have no effect until IHSDM is restarted.
- **List Box Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.listbox.fore`. This button allows the list box foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **List Box Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.listbox.back`. This button allows the list box background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.

2.1.1.3.5 More Colors Tab

This group includes items that define the other color attributes used for the graphical user interface.

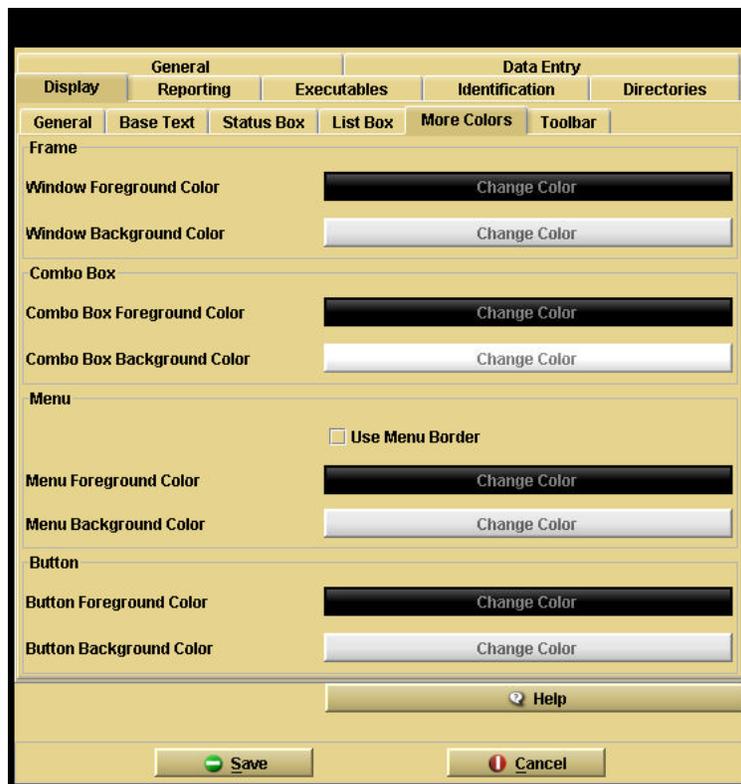


Figure 7 Display/More Colors Tab

The **More Colors** tab includes the following widgets: Window Foreground Color, Window Background Color, Combo Box Foreground Color, Combo Box Background Color, Use Menu Border, Menu Foreground Color, Menu Background Color, Button Foreground Color and Button Background Color.

- **Window Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.frame.fore`. This button allows the window/dialog foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Window Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.frame.back`. This button allows the window/dialog background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Combo Box Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.combobox.fore`. This button allows the combo box foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Combo Box Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.combobox.back`. This button allows the combo box background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Use Menu Border** - Widget type: check box. **Property name:** `ihsdm.use.menu.border`. This button enables/disables a menu item border. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Any change is not effective until the next time IHSDM is invoked.
- **Menu Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.menu.fore`. This button allows the menu foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Menu Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.menu.back`. This button allows the menu background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Button Foreground Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.button.fore`. This button allows the button foreground color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.
- **Button Background Color** - Widget type: color chooser button. **Property name:** `ihsdm.color.button.back`. This button allows the button background color to be changed. This item is disabled when the *Use Look and Feel Defaults* check box is enabled. Note: a color change is not effective until the next time IHSDM is invoked.

2.1.1.3.6 Toolbar Tab

This tab includes the item that control which toolbar buttons are displayed.

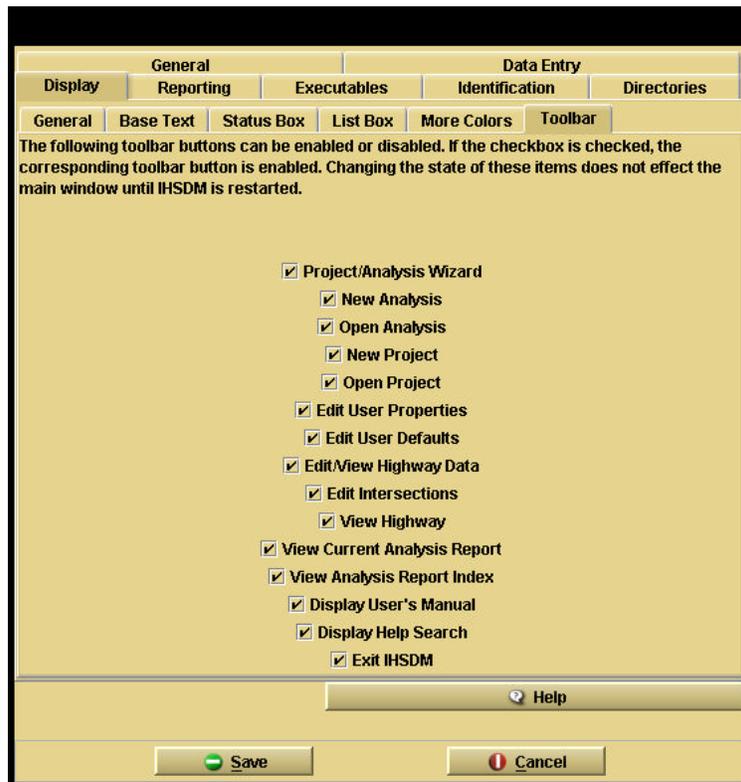


Figure 8 Display/Toolbar Tab

The **Toolbar** tab includes the following widgets: Project/Analysis Wizard, New Analysis, Open Analysis, New Project, Open Project, Edit User Properties, Edit User Defaults, Edit/View Highway Data, Edit Intersections, View Highway, View Current Analysis Report, View Analysis Report Index, Display User's Manual, Display Help Search and Exit IHSDM.

- **Project/Analysis Wizard** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbPARWizard`. This item enables/disables the **Project/Analysis Wizard** toolbar button. Note: Changing the state of this item does not effect the main window until IHSDM is restarted.
- **New Analysis** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbNewAnalysis`. This item enables/disables the **New Analysis** toolbar button. Note: Changing the state of this item does not effect the main window until IHSDM is restarted.
- **Open Analysis** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbOpenAnalysis`. This item enables/disables the **Open Analysis** toolbar button. Note: Changing the state of this item does not effect the main window until IHSDM is restarted.
- **New Project** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbNewProject`. This item enables/disables the **New Project** toolbar button. Note: Changing the state of this item does not effect the main window until IHSDM is restarted.

- **Open Project** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbOpenProject`. This item enables/disables the **Open Project** toolbar button. Note: Changing the state of this item does not effect the main window until IHSDM is restarted.
- **Edit User Properties** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbEditUserProp`. This item enables/disables the **Edit User Properties** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **Edit User Defaults** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbEditUserDefaults`. This item enables/disables the **Edit User Defaults** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **Edit/View Highway Data** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbEditHighway`. This item enables/disables the **Edit/View Highway Data** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **Edit Intersections** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbEditIntersection`. This item enables/disables the **Edit Intersections** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **View Highway** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbViewHighway`. This item enables/disables the **View Highway** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **View Current Analysis Report** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbViewAR`. This item enables/disables the **View Current Analysis Report** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **View Analysis Report Index** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbViewAI`. This item enables/disables the **View Analysis Index** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **Display User's Manual** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbHelpUM`. This item enables/disables the **Display User's Manual** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **Display Help Search** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbHelpSearch`. This item enables/disables the **Display Help Search** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.
- **Exit IHSDM** - Widget type: check box. **Property name:** `ihsdm.ddattr.show.tbExit`. This item enables/disables the **Exit IHSDM** toolbar button. Note: changing the state of this item does not effect the main window until IHSDM is restarted.

2.1.1.4 Reporting Tab

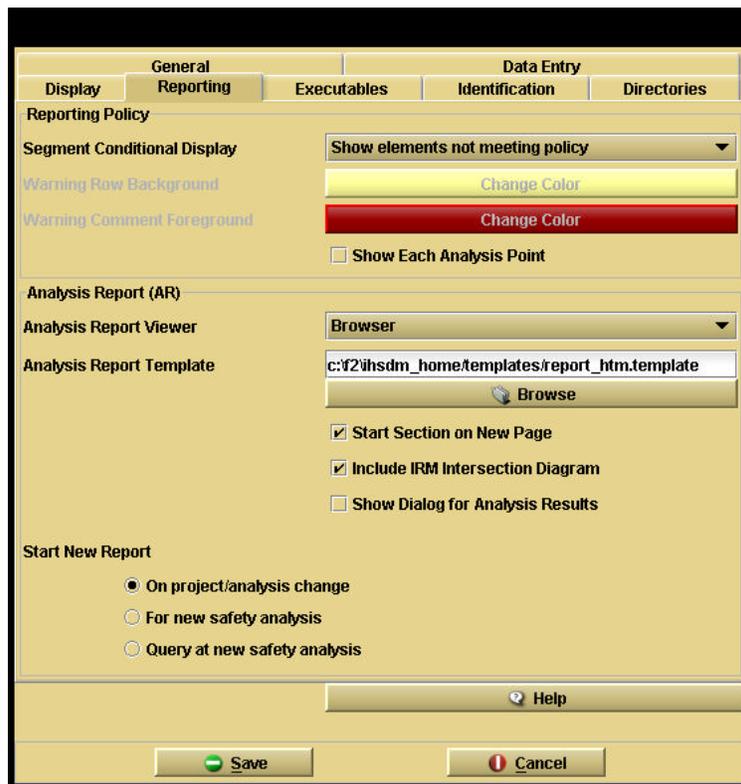


Figure 9 Reporting Tab

The **Reporting** tab includes the following widgets: Segment Conditional Display, Warning Row Background, Warning Comment Foreground, Show Each Analysis Point, Analysis Report Viewer, Analysis Report Template, Start Section on New Page, Include IRM Intersection Diagram, Show Dialog for Analysis Results and Start New Report.

- **Segment Conditional Display** - Widget type: combo box. **Property name:** `ih sdm.prm.showall`. The value of this item specifies the category of highway segments which are written to the analysis report for policy checks (PRM & IRM). The enumeration values are:
 - **Show elements not meeting policy** (show only segments that that vary from the associated policy values),
 - **Show elements meeting policy** (show all segments that are applicable) and
 - **Show all elements** (show all segments including those evaluated as not applicable).
- **Warning Row Background** - Widget type: color chooser button. **Property name:** `ih sdm.prm.warning.row.color`. This item specifies the color used for the background in table rows that indicate a potential problem. The value of this item is not applicable if only warning segments are reported (**Segment Conditional Display**=*Show elements not meeting policy*).
- **Warning Comment Foreground** - Widget type: color chooser button. **Property name:** `ih sdm.prm.warning.cmt.color`. This item specifies the color used for the foreground of the comment text in table rows that indicate a potential problem. The value of this item is not applicable if only warning segments are reported (**Segment Conditional**

Display=*Show elements not meeting policy*).

- **Show Each Analysis Point** - Widget type: check box. **Property name:** **ihsdm.prm.showeach**. Specifies whether each point of the analysis is represented as a row of output ('yes'), or whether contiguous equal rows are combined ('no') as a single row.
- **Analysis Report Viewer** - Widget type: combo box. **Property name:** **ihsdm.report.viewer**. This property allows the user to choose which tool and format they wish to use to view problem reports. The tools available are either a text editor or a word processor. The text editor and word processor executables are specified in the 'Executable' tab. The enumeration values are: **Browser**, **Text Editor** and **Word Processor**.
- **Analysis Report Template** - Widget type: text field (w/button). **Property name:** **ihsdm.report.template**. This template must be compatible with your specified wordprocessor or text editor. The base form of the file name should be 'xxx_yyy.template'. The output file is created with an extension of 'yyy'.
- **Start Section on New Page** - Widget type: check box. **Property name:** **ihsdm.report.new.page**. This item enables/disables a feature to start each major analysis report section on a new page when the report is printed from the browser. This feature only works from newer versions of Microsoft Explorer and Netscape Navigator.
- **Include IRM Intersection Diagram** - Widget type: check box. **Property name:** **ihsdm.report.irm.intersection.diagram**. This property controls whether the IRM intersection diagram are generated for the analysis report. If this item is enabled, the intersection diagram is generated and include in the report. Disabling this item causes the report generation to run faster.
- **Show Dialog for Analysis Results** - Widget type: check box. **Property name:** **ihsdm.results.show.dialog**. This item enables/disables the display of a pop-up dialog with the status of each individual policy check exception.
- **Start New Report** - Widget type: radio button. **Property name:** **ihsdm.report.start**. This property controls when a new analysis report is started. If the option *On project/analysis change* is selected, a new analysis report is started each time the analysis or project is changed. Multiple safety analysis runs are save in the same file. If the option *For new safety analysis* is selected, each new safety analysis run generates a new analysis report file. If the option *Query at new safety analysis* is selected, a query dialog is generated to ask if a new report should be started at each new safety analysis. The enumeration values are:
 - **On project/analysis change** (start a new analysis report when the project/analysis is changed),
 - **For new safety analysis** (start a new analysis report for each new safety analysis) and
 - **Query at new safety analysis** (query to start a new analysis report for each new safety analysis).

2.1.1.5 Executables Tab

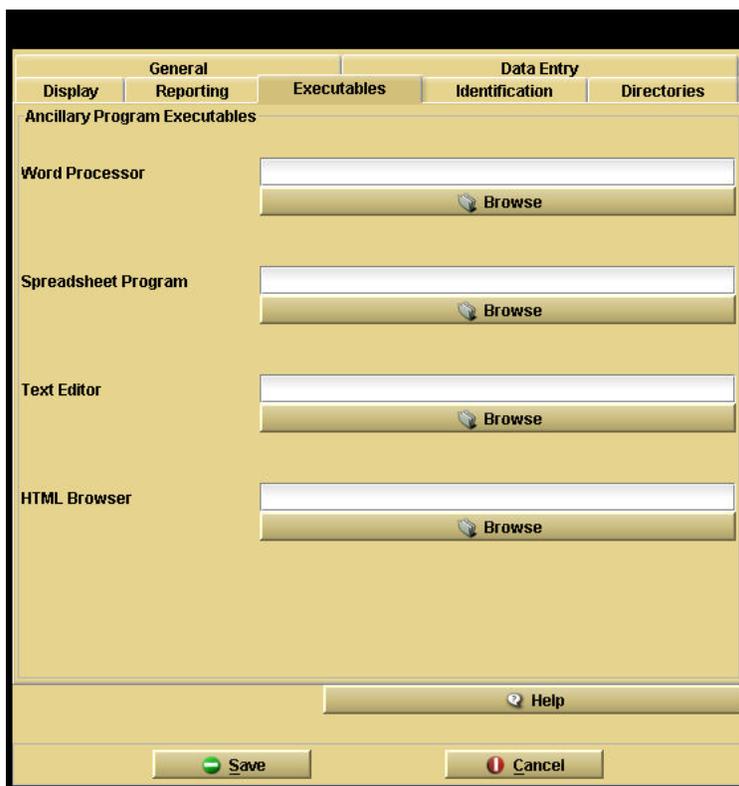
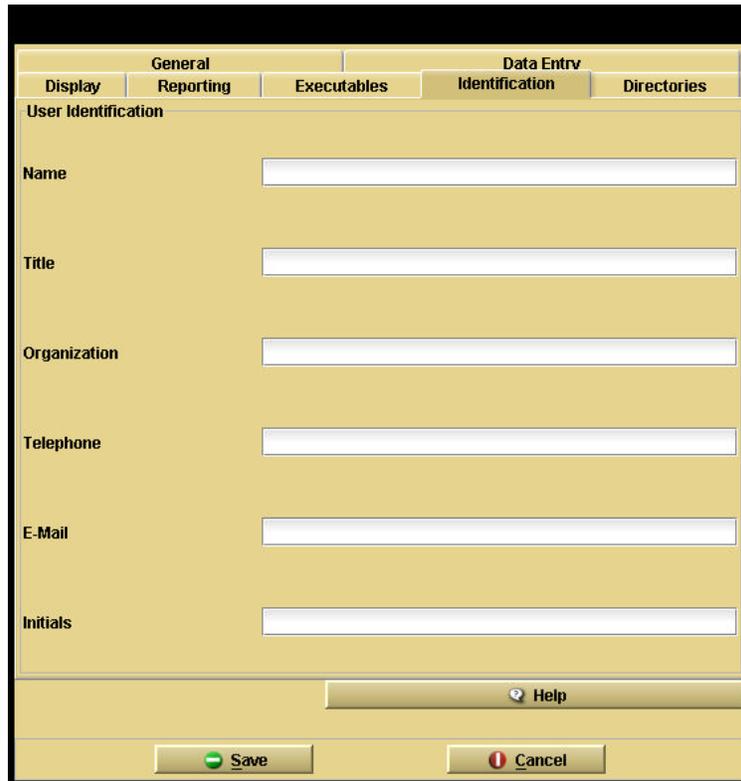


Figure 10 Executables Tab

The **Executables** tab includes the following widgets: Word Processor, Spreadsheet Program, Text Editor and HTML Browser.

- **Word Processor** - Widget type: text field (w/button). **Property name:** `ihsdm.wordprocessor`. This item is the full executable file name and path of the user's preferred word processor program. The browse button associated with this widget allows the user to select the program executable using a file chooser dialog.
- **Spreadsheet Program** - Widget type: text field (w/button). **Property name:** `ihsdm.spreadsheet`. This item is the full executable file name and path to the user's preferred spreadsheet program. The browse button associated with this widget allows the user to select the program executable using a file chooser dialog.
- **Text Editor** - Widget type: text field (w/button). **Property name:** `ihsdm.editor`. This item is the full executable file name and path of the user's preferred plain text editor. The browse button associated with this widget allows the user to select the program executable using a file chooser dialog.
- **HTML Browser** - Widget type: text field (w/button). **Property name:** `ihsdm.html.browser`. This item is the full executable file name and path of the user's preferred HTML browser program. The browse button associated with this widget allows the user to select the program executable using a file chooser dialog.

2.1.1.6 Identification Tab



The screenshot shows a dialog box with a yellow background and a black border. At the top, there are two tabs: 'General' and 'Data Entry'. Under 'Data Entry', there are five sub-tabs: 'Display', 'Reporting', 'Executables', 'Identification', and 'Directories'. The 'Identification' sub-tab is selected. Below the sub-tabs, the text 'User Identification' is displayed. There are six text input fields, each with a label to its left: 'Name', 'Title', 'Organization', 'Telephone', 'E-Mail', and 'Initials'. At the bottom of the dialog, there are three buttons: a green 'Save' button, a red 'Cancel' button, and a 'Help' button with a question mark icon.

Figure 11 Identification Tab

The **Identification** tab includes the following widgets: Name, Title, Organization, Telephone, E-Mail and Initials.

- **Name** - Widget type: text field. **Property name: `ihsdm.user.fullname`**. This item is the user identification name used in the default analysis reports.
- **Title** - Widget type: text field. **Property name: `ihsdm.user.title`**. This item is the user identification title used in the default analysis reports.
- **Organization** - Widget type: text field. **Property name: `ihsdm.user.organization`**. This item is the user identification organization used in the default analysis reports.
- **Telephone** - Widget type: text field. **Property name: `ihsdm.user.telno`**. This item is the user identification telephone number used in the default analysis reports.
- **E-Mail** - Widget type: text field. **Property name: `ihsdm.user.email`**. This item is the user identification E-Mail address used in the default analysis reports.
- **Initials** - Widget type: text field. **Property name: `ihsdm.user.initials`**. This item is the user identification initials, currently not used.

2.1.1.7 Directories Tab

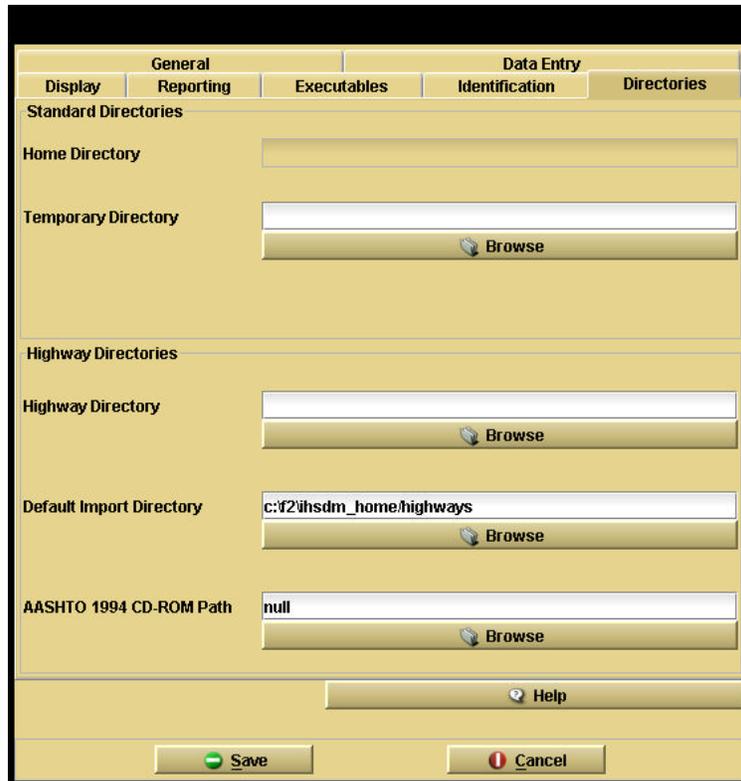


Figure 12 Directories Tab

The **Directories** tab includes the following widgets: Home Directory, Temporary Directory, Highway Directory, Default Import Directory and AASHTO 1994 CD-ROM Path.

- **Home Directory** - Widget type: text field (read-only). **Property name:** `ihsdm.user.home`. IHSDM user home directory is a full directory (folder) name that specifies where the IHSDM files are maintained. The value defaults to the current directory.
- **Temporary Directory** - Widget type: text field (w/button). **Property name:** `ihsdm.temp`. This item is the full directory (folder) name that specifies where temporary files are stored while IHSDM is running. The value defaults to the current directory. The browse button associated with this widget allows the user to select the directory using a file chooser dialog.
- **Highway Directory** - Widget type: text field (w/button). **Property name:** `ihsdm.roadway.home`. This item is the full directory (folder) name that specifies the location of IHSDM highway files. This value is ignored if the location of highway files has been restricted to the server by the IHSDM system properties (`ihsdm.roadway.location`). The browse button associated with this widget allows the user to select the directory using a file chooser dialog.
- **Default Import Directory** - Widget type: text field (w/button). **Property name:** `ihsdm.roadway.import.dir`. This item is the full directory (folder) name that specifies the initial file chooser directory in the data import browser.
- **AASHTO 1994 CD-ROM Path** - Widget type: text field (w/button). **Property name:** `ihsdm.greenbook.html.path`. This item is the full directory (folder) name that specifies the path to the AASHTO 1994 'A Policy on Geometric Design of Highways and Streets' CD-ROM. The directory pointed to by this path must be the subdirectory 'Gbook'.

2.1.2 Widgets

- **Help** - Widget type: button. This button launches the HTML browser to display additional information about editing IHSDM user properties.
- **Save** - This button closes the element add/edit dialog and saves any changes or additions.
- **Cancel** - This button closes the element add/edit dialog and discards any changes or additions.

3. User Default Values

User default values are similar to user properties. They are assigned values in the file `ihsdm.props` in the user's IHSDM home directory. The user properties are normally set by the *Edit/Edit Defaults* menu item in the IHSDM main (Master) window.

3.1 User Default Values Dialog

This dialog allows you to display, modify and save the value of a number of module specific default values. The **Module Default Values** dialog includes the following tabs: General, Policy Review, Crash Prediction, Design Consistency, Intersection Review and Traffic Analysis. The **Module Default Values** dialog includes the following widgets: Help, Save and Cancel.

3.1.1 Tabs

The Module Default Values Dialog includes the tabs described in the following sections.

3.1.1.1 General Tab

Figure 13 General Tab

The **General** tab includes the following widgets: Default E Max, Default Normal Cross Slope, Default Metric Units Policy, Default English Units Policy, DCM/TAM Desired Speed (km/h) and DCM/TAM Desired Speed (mph).

- **Default E Max** - Widget type: combo box. Unit of measure: percent. **Property name:** `ihsdm.prm.default.emax`. The default becomes the 'user default' value for the maximum design superelevation. Superelevation rates are determined using the design

maximum superelevation rate. This rate would be used for the sharpest curve recommended (shortest radius) for a given design speed. Longer radii curves have lower superelevation rates. Default maximum superelevation should be entered as a percentage (%). The enumeration values are: 4, 6, 8, 10 and 12. The unit of measure for this item is percent.

- **Default Normal Cross Slope** - Widget type: text field. Unit of measure: percent. **Property name:** `ihsdm.default.normal.cross.slope`. The default becomes the 'user default' value for the normal cross slope highway data. Once a highway dataset is imported, normal cross slope elements can be modified to vary along the alignment. The unit of measure for this item is percent.
- **Default Metric Units Policy** - Widget type: combo box. **Property name:** `ihsdm.prm.metric.policy`. This item is the name of the default policy used for Metric system projects in PRM. The enumeration values are: .
- **Default English Units Policy** - Widget type: combo box. **Property name:** `ihsdm.prm.english.policy`. This item is the name of the default policy used for English system projects in IDR. The enumeration values are: .
- **DCM/TAM Desired Speed (km/h)** - Widget type: text field. **Property name:** `ihsdm.dcm.default.desiredspeed.metric`. This item is the default DCM/TAM desired speed for new Metric system analyses. The desired speed is the speed that drivers select when not constrained by the vertical or horizontal alignment.
- **DCM/TAM Desired Speed (mph)** - Widget type: text field. **Property name:** `ihsdm.dcm.default.desiredspeed.english`. This item is the default DCM/TAM desired speed for new English system analyses. The desired speed is the speed that drivers select when not constrained by the vertical or horizontal alignment.

3.1.1.2 Policy Review Tab

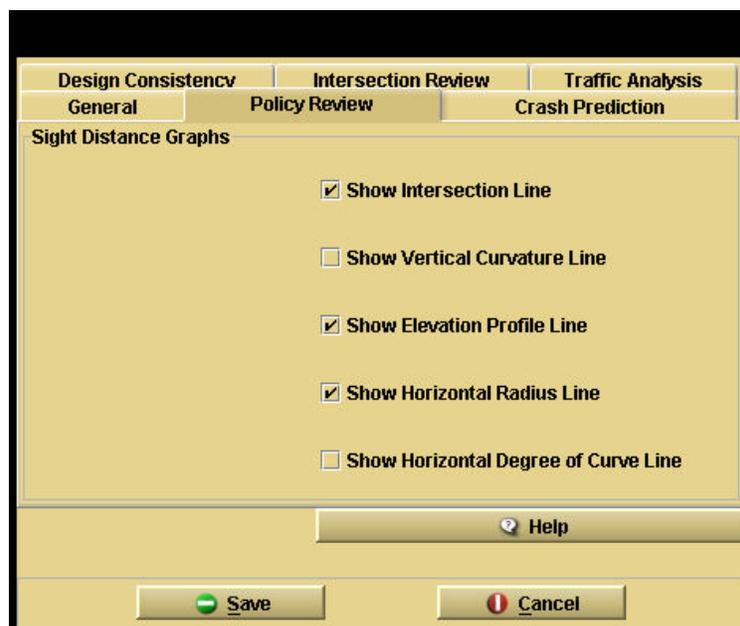


Figure 14 Policy Review Tab

The **Policy Review** tab includes the following widgets: Show Intersection Line, Show Vertical Curvature Line, Show Elevation Profile Line, Show Horizontal Radius Line and Show

Horizontal Degree of Curve Line.

- **Show Intersection Line** - Widget type: check box. **Property name:** `ihsdm.prm.plot.intersection`. This item enables/disables the display of the intersection line on the sight distance graphic output.
- **Show Vertical Curvature Line** - Widget type: check box. **Property name:** `ihsdm.prm.plot.vertical`. This item enables/disables the display of the vertical alignment curvature line on the sight distance graphic output.
- **Show Elevation Profile Line** - Widget type: check box. **Property name:** `ihsdm.prm.plot.elevation`. This item enables/disables the display of the vertical alignment elevation profile line on the sight distance graphic output.
- **Show Horizontal Radius Line** - Widget type: check box. **Property name:** `ihsdm.prm.plot.horizontal`. This item enables/disables the display of the horizontal alignment radius line on the sight distance graphic output.
- **Show Horizontal Degree of Curve Line** - Widget type: check box. **Property name:** `ihsdm.prm.plot.degree.of.curve`. This item enables/disables the display of the horizontal alignment degree of curve line on the sight distance graphic output.

3.1.1.3 Crash Prediction Tab

The **Crash Prediction** tab includes the following sub-tabs: Analysis, Graph, Calibration/Distribution, Road View and Empirical-Bayes. The Module Default Values Dialog includes the tabs described in the following sections.

3.1.1.3.1 Analysis Tab

Figure 15 Crash Prediction/Analysis Tab

The **Analysis** tab includes the following widgets: Number of Years, Metric Superelevation Policy and English Superelevation Policy.

- **Number of Years** - Widget type: text field. Unit of measure: INT. **Property name:** `ihsdm.cpm.num.years`. A new analysis is initialized with this value, the default

number of years of crash prediction. The value of the *First Year of Analysis* item is initialized to next year. The value of this property is then used to initialize the value of the *Last Year of Analysis* item.

- **Metric Superelevation Policy** - Widget type: combo box. **Property name:** `ihsdm.cpm.metric.policy`. This policy is used for Metric projects for superelevation evaluation in CPM. The enumeration values are: .
- **English Superelevation Policy** - Widget type: combo box. **Property name:** `ihsdm.cpm.english.policy`. This policy is used for English projects for superelevation evaluation in CPM. The enumeration values are: .

3.1.1.3.2 Graph Tab

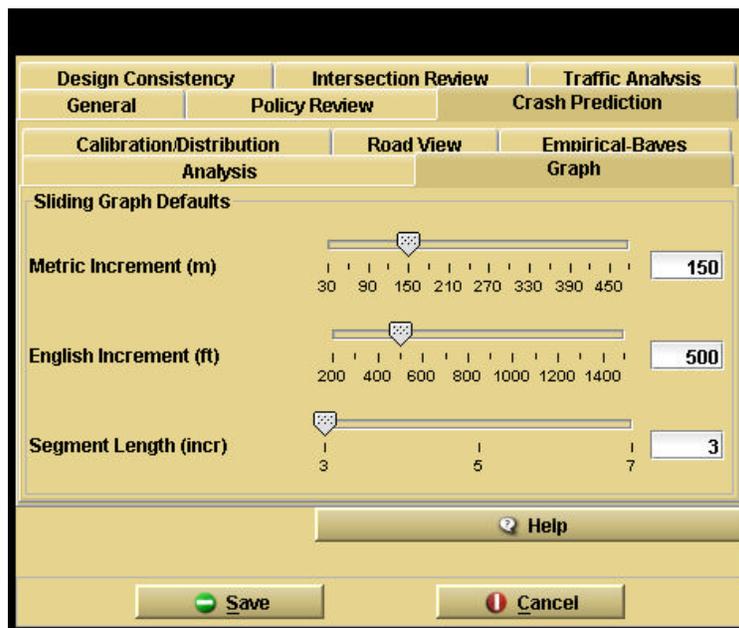


Figure 16 Crash Prediction/Graph Tab

The **Graph** tab includes the following widgets: Metric Increment (m), English Increment (ft) and Segment Length (incr).

- **Metric Increment (m)** - Widget type: slide bar (w/text). **Property name:** `ihsdm.cpm.metric.slide.incr.short`. This item is the CPM sliding graph increment value in meters. This value is used when the CPM summary display unit system is the *Metric* system. The sliding (averaging) segment is an integer multiple of this value. For an increment of 3, the value is recommended to be between 90 and 480 meters. For an increment of 5, the value is recommended to be between 30 and 300 meters. For an increment of 7, the value is recommended to be between 30 and 210 meters.
- **English Increment (ft)** - Widget type: slide bar (w/text). **Property name:** `ihsdm.cpm.english.slide.incr.short`. This item is the CPM sliding graph increment value in feet. This value is used when the CPM summary display unit system is the *English* system. The sliding (averaging) window size is an integer multiple of this value. For an increment of 3, the value is recommended to be between 300 and 1500 feet. For an increment of 5, the value is recommended to be between 200 and 900 feet. For an increment of 7, the value is recommended to be between 200 and 600 feet.

- **Segment Length (incr)** - Widget type: slide bar (w/text). Unit of measure: INT.
Property name: ihsdm.cpm.slide.seg.len. This item is the CPM sliding graph segment length, specified as an integer multiple of the increment value. The value of this item should be an odd integer value.

3.1.1.3.3 Calibration/Distribution Tab

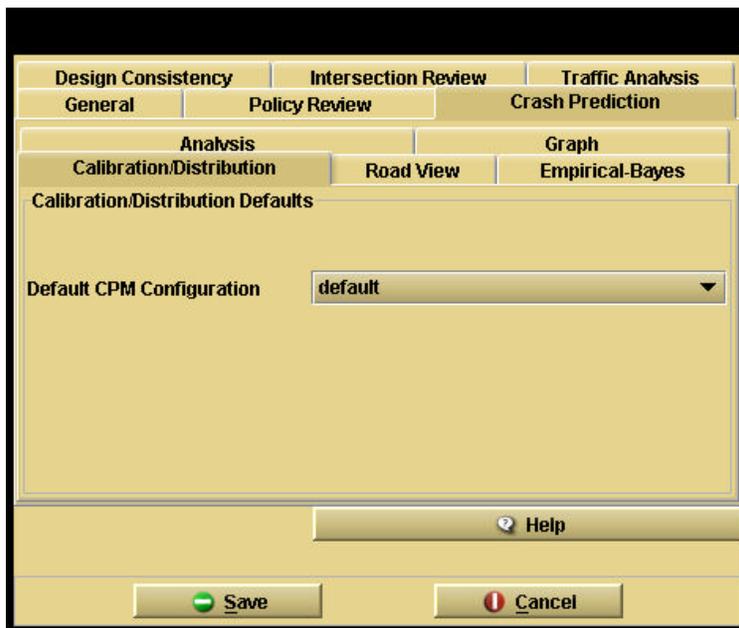


Figure 17 Crash Prediction/Calibration/Distribution Tab

The **Calibration/Distribution** tab includes the following widgets: Default CPM Configuration.

- **Default CPM Configuration** - Widget type: combo box. **Property name: ihsdm.cpm.default.config.** This item is the name of the CPM calibration and accident distribution data initially set for a new analysis. The enumeration values are: **default.**

3.1.1.3.4 Road View Tab

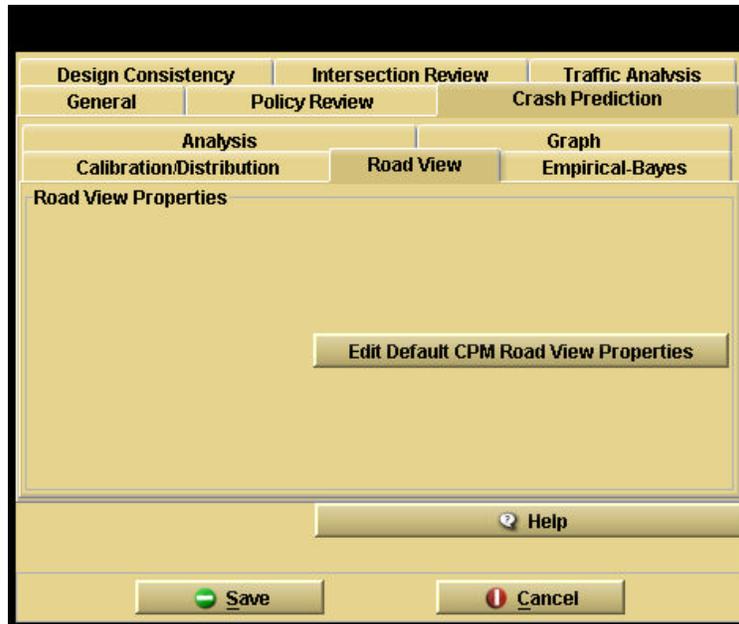


Figure 18 Crash Prediction/Road View Tab

The **Road View** tab includes the following widgets: Edit Default CPM Road View Properties.

- **Edit Default CPM Road View Properties** - Widget type: button. This button opens a properties editor for the CPM road view.

3.1.1.3.5 Empirical-Bayes Tab

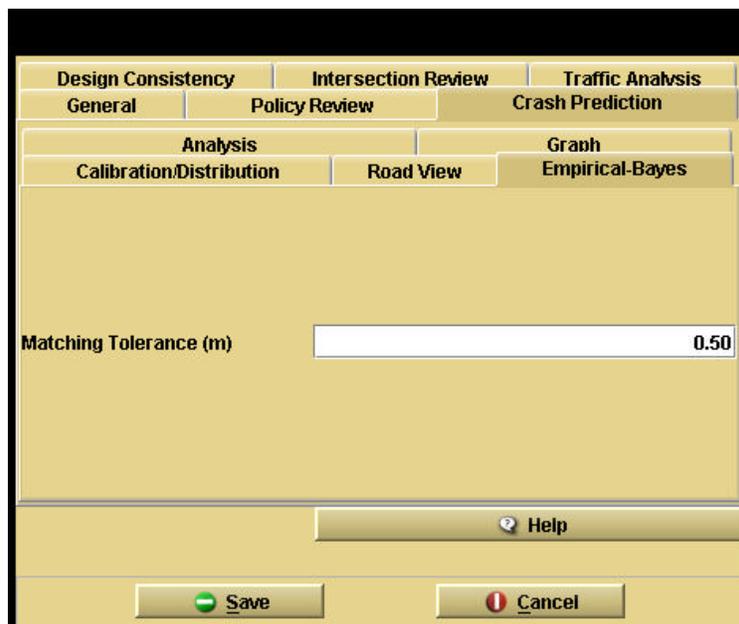


Figure 19 Crash Prediction/Empirical-Bayes Tab

The **Empirical-Bayes** tab includes the following widgets: Matching Tolerance.

- **Matching Tolerance** - Widget type: text field. Unit of measure: meters (feet). **Property name: ih sdm.cpm.eb.match.tolerance.** This item is the tolerance used in matching the segment end points when performing the E-B segment mapping. Any points

from the proposed and master highway that are closer than this distance are considered the same for the E-B segment matching. The unit of measure for this item is meters (feet).

3.1.1.4 Design Consistency Tab

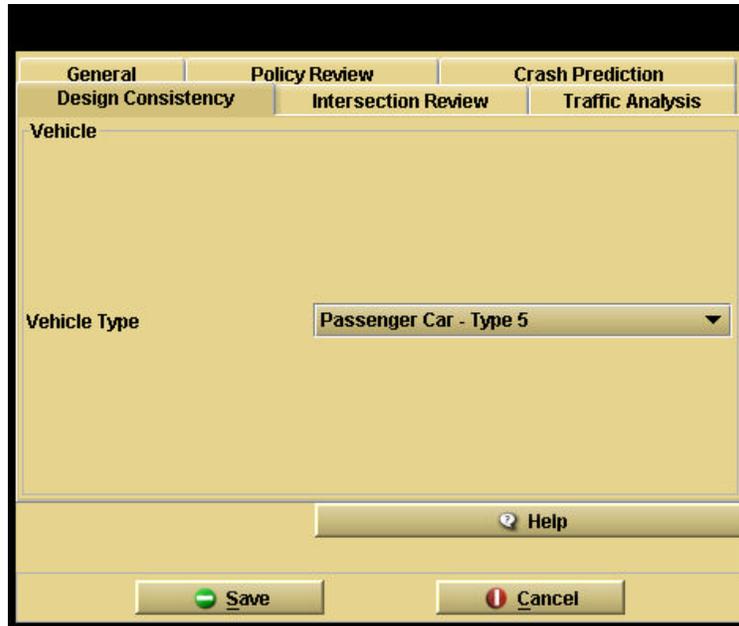


Figure 20 Design Consistency Tab

The **Design Consistency** tab includes the following widgets: Vehicle Type.

- **Vehicle Type** - Widget type: combo box. **Property name:** `ihsdm.dcm.default.vehicletype`. This item is the default value of vehicle type used for new analyses. The codes represent the performance of passenger cars, the greater the code the greater the vehicle performance. The enumeration values are: **Passenger Car - Type 1**, **Passenger Car - Type 2**, **Passenger Car - Type 3**, **Passenger Car - Type 4** and **Passenger Car - Type 5**.

3.1.1.5 Intersection Review Tab



Figure 21 Intersection Review Tab

The **Intersection Review** tab includes the following widgets: Edit Default IDRM Road View Properties.

- **Edit Default IDRM Road View Properties** - Widget type: button. This button opens a properties editor for the IDRM road view.

3.1.1.6 Traffic Analysis Tab

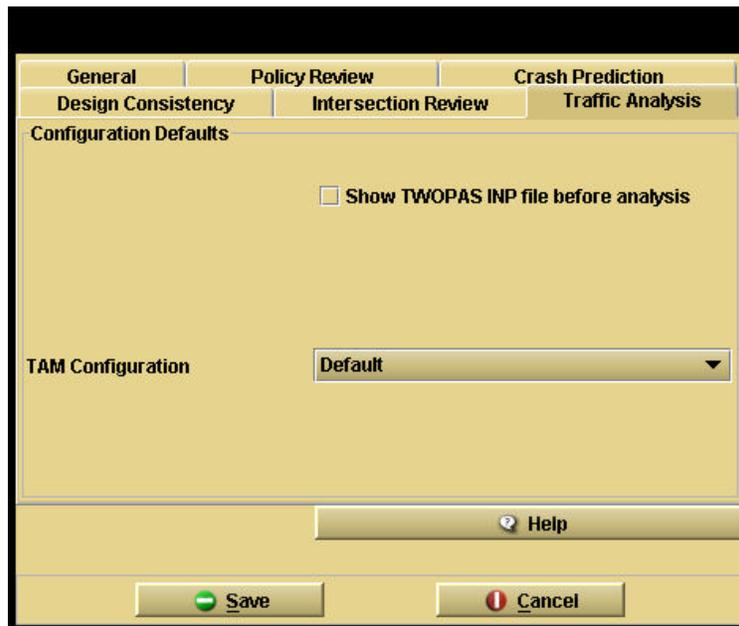


Figure 22 Traffic Analysis Tab

The **Traffic Analysis** tab includes the following widgets: Show TWOPAS INP file before analysis and TAM Configuration.

- **Show TWOPAS INP file before analysis** - Widget type: check box. **Property name:** `ihsdm.tam.inp.show`. Checking this box will cause the TAM module to show the TWOPAS INP file to the user before running the TAM analysis.
- **TAM Configuration** - Widget type: combo box. **Property name:** `ihsdm.tam.config.name`. This item is the name of the TAM configuration dataset. The enumeration values are: **Default**.

3.1.2 Widgets

- **Help** - Widget type: button. This button launches the HTML browser to display additional information about editing IHSDM default values.
- **Save** - This button closes the element add/edit dialog and saves any changes or additions.
- **Cancel** - This button closes the element add/edit dialog and discards any changes or additions.

4. Sample Property Files

An example of a system property file and a user property file follow.

4.1 Sample System Property File

```
# IHSDM System Properties
#Fri Jan 28 07:20:55 MST 2000
ihsdm.minimize=cpu
ihsdm.project.units=Metric
ihsdm.operational.mode=stand-alone
ihsdm.roadway.location=project
ihsdm.server.home=C\:/trobbins/ihsdm_home
ihsdm.roadway.system.home=C\:/trobbins/ihsdm_home/roadways
ihsdm.document.home=C\:/trobbins/ihsdm_home/html
ihsdm.wordprocessor=D\:/Corel/Office7/WPwin7/WPWIN.EXE
ihsdm.share.enable=yes
ihsdm.base.name=C\:/trobbins/ihsdm_home
ihsdm.home=C\:/trobbins/ihsdm_home
ihsdm.admin.user=rob30480
ihsdm.spreadsheet=c\:/Program\ Files/Microsoft\ Office/office/excel.exe
ihsdm.user.organization=ITT\ Industries,\ Systems\ Division
ihsdm.editor=c\:/winnt/notepad.exe
ihsdm.html.browser=C\:/Program\ Files/Netscape/Communicator/Program/netscape.exe
ihsdm.user.login=none
ihsdm.cache.size=700
ihsdm.trace=on
# IHSDM User Home Directories
#Fri Jan 28 07:20:55 MST 2000
ihsdm.test1.home=c\:/TRObbins/ihsdm_test
ihsdm.test.home=c\:/TRObbins/ihsdm_run
ihsdm.rob30480.home=C\:/TRObbins/ihsdm_run
```

4.2 Sample User Property File

```
#IHSDM user (client) properties
#Fri Feb 04 13:38:41 MST 2000
ihsdm.user.email=tom.robbs@itt.com
ihsdm.user.home=C\:/TRObbins/ihsdm_run
ihsdm.default.font.size=12
ihsdm.default.units=Metric
ihsdm.roadway.location=project
```

```
ihsdm.report.template=  
ihsdm.default.station.notation=xx+yyy.zzz  
ihsdm.roadway.home=C\:/TRobbins/ihsdm_run  
ihsdm.timer=on  
ihsdm.user.title=  
ihsdm.user.level=Debug  
ihsdm.wordprocessor=D\:/Corel/Office7/WPWin7/WPWIN.EXE  
ihsdm.user.initials=TRR  
ihsdm.master.gui=Standard  
ihsdm.home=c\:/trobbins/ihsdm_home  
ihsdm.temp=c\:/temp  
ihsdm.pr.template=C\:/trobbins/repos/templates/pr_htm.template  
ihsdm.pr.viewer=Word\ Processor  
ihsdm.user=rob30480  
ihsdm.home.drive=c\:/trobbins/ihsdm_home  
ihsdm.spreadsheet=c\:/Program\ Files/Microsoft\ Office/office/excel.exe  
ihsdm.report.viewer=Browser  
ihsdm.user.organization=ITT\ Industries,\ Systems\ Division  
ihsdm.roadway.import.dir=C\:/trobbins/repos/roadways  
ihsdm.user.telno=719-599-1188  
ihsdm.user.fullname=Tom\ Robbins  
ihsdm.editor=c\:/winnt/notepad.exe  
ihsdm.html.browser=C\:/Program\ Files/Netscape/Communicator/Program/netscape.exe
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