

The following briefly describes the changes incorporated in the associated update. Each subsequent update contains all of the changes included in the previous revisions.

Revision	Date	Description
099	07/05/2016	Miscellaneous program maintenance.
	06/19/2015	Miscellaneous program maintenance.
	06/11/2014	Miscellaneous program maintenance.
095	02/25/2014	Miscellaneous program maintenance.
094	01/09/2014	Miscellaneous program maintenance.
093	12/05/2013	Miscellaneous program maintenance.
092	10/29/2013	Resolved issue with executing the Update External Loads routine with customers assigned to non-displayed or non-active supply mains.
		Revised to handle GASCalc menu link on 64 Bit machines.
		Miscellaneous program maintenance.
081	11/27/2012	Resolved issue with adding multiple user text features.
	11/06/2012	Resolved issue with adding multiple customers command.
		Added “attached fittings” to the system summary report.
074	04/09/2012	Miscellaneous program maintenance.
		Corrected issue with negative coordinates when adding new customer features.
		Corrected issue with importing customer load values with multiple attribute values assigned.
066	08/16/2011	Miscellaneous program maintenance.
		Corrected issue with diversified heating type code on export of customer data.
		Revised design factor handling to also apply to diversified load values.
061	03/17/2011	Revised GDI to allow X/Y coordinate values to range from 100,000,000 to 100,000,000.
		Miscellaneous program maintenance.
		Resolved issue with importing customer loads.
061	03/17/2011	Miscellaneous program maintenance.
		Miscellaneous program maintenance.



Revision	Date	Description
060	02/09/2011	Resolved issue with plotting error.
	02/07/2011	Resolved issue with moving User Text. Miscellaneous program maintenance.
059	01/31/2011	Miscellaneous program maintenance.
	01/20/2011	Resolved issue with the backup of property tables when overwriting an existing file. Resolved issue with importing shapefile customers with pipe id assignments. Miscellaneous program maintenance.
058	12/20/2010	Resolved issues with displaying point-style shapefiles as backgrounds.
	12/17/2010	Enhanced Summary Option with the Edit Multiple Pipes command. Miscellaneous program maintenance.
	12/02/2010	Added support for additional shapefile types to the background and import routines. Miscellaneous program maintenance.
056	10/19/2010	Added pipe size/type suffix to list of items that can be changed by the mass update and multi-edit routines. Miscellaneous program maintenance.
055	09/28/2010	Resolved issue with large cost value handling when creating a Pipe Summary report. Resolved issue with mishandling of design factor when using the Edit Multiple Customers summary. Miscellaneous program maintenance.
054	08/30/2010	Resolved issue with using dxf files with out-of-range coordinates as background files.
	08/16/2010	Resolved issue saving results when elevation differences are present. Resolved issue with displaying large trace results files. Revised handling and saving of heating values dimensional units. Miscellaneous program maintenance.



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Revision	Date	Description
053	07/21/2010	<p>Resolved issue with the display of the velocity value when using other than feet/sec dimensional units in the Pipe Segment Calculator with the UKDM and USDM options.</p> <p>Added relative X, Y coordinate entry; for example, the value @x,y can be entered at the To Node prompt when entering a new pipe.</p> <p>Resolved issue with misreporting an exception in the Solution Log for nodes where the Adjust Load By Design Factor option is not selected.</p> <p>Revised Summary Report to report the number of nodes connected to turned “off” pipes when using the System Summary option.</p> <p>Revised Summary Report to better handle Supply Summary when diversified loads are being used.</p> <p>Resolved issue with Tool Palette sometimes disappearing during mouse movement.</p> <p>Resolved issue opening the BOM report when no mains are included in the report.</p> <p>Resolved issue when both the graphic data file and default graphic data file are from an earlier GASWorkS version.</p> <p>Miscellaneous program maintenance.</p>
050	04/19/2010	Resolved issue with handling branch-type customers using the UK Design Module.
	04/09/2010	<p>Resolved issue with exporting the graphic settings in a GASWorkS 9.0 model to a 7.0 model for Graphic Data file versions newer than 9.2.</p> <p>Revised issue with excess velocity pipes occasionally being selected using the pipe sizing routine.</p> <p>Revised Save routine to send previous back model files to the recycle bin instead of deleting them.</p>
047	01/29/2010	<p>Resolved issue with adding polyline style customer.</p> <p>Resolved issue saving Link ID value using the Pipe Data screen.</p> <p>Resolved issue with using query and color code features with pipe attribute items.</p> <p>Miscellaneous program maintenance.</p>



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Revision	Date	Description
046	12/10/2009	Resolved issue with using the Swap Pipe End command with polyline type pipes with more than 3 vertices.  Resolved issue using the Update External Node Loads routine when a database index file is present.  Miscellaneous program maintenance.
	12/03/2009	Resolved issue with importing floating point values using the MIF importing routines.  Resolved issue with reading large blocks in dxf files.  Miscellaneous program maintenance.
043	09/25/2009	Resolved issue with finding fitting pipe types during solution.  Resolved issue exporting Stoner PD/XY files when polyline type pipes are present in the model.  Revised handling of condition node and pressure value entry.  Resolved issue with exporting pipe data when pipe attribute file attached but not connected.  Miscellaneous program maintenance.
	09/08/2009	Resolved issue with saving property tables using the property table report.  Resolved issue with display of phantom line when adding a branch customer.
042	08/19/2009	Resolved issue using the auto-tap command while entering a polyline type pipe.
	08/14/2009	Added support for the inclusion of projection file when exporting model data to a shapefile set.  Resolved issue with merging shape pipe data when imported pipe already exists in the target model.  Resolved issue with opening the pipe report for large models.  Resolved issue with preparing for the solution when many unconnected main segments exist in the model.



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Revision	Date	Description
041	07/29/2009	Resolved issue with saving attribute data values associated with a data list when editing in the Customer or Pipe report.  Resolved issue with attribute file handling when set to use the model path location.  Miscellaneous program maintenance.
	07/10/2009	Resolved issue with copying polyline and arc-type pipes.  Resolved issue with adding polyline type customer.  Added Clear All Flags command.  Resolved issue with Quick Export menu selection.  Miscellaneous maintenance to customer and pipe attribute routines.
040	06/26/2009	Revised find and item flag handling and display.  Resolved solution issue with using AGA-Partially Turbulent pipe flow equation with zero or very low flow pipes.  Miscellaneous program maintenance.
	06/14/2009	Resolved issue with canceling a pipe “add” command.
	06/12/2009	Resolved issue with applying new gas properties when node load units are expressed in energy-type dimensional units.
	06/10/2009	Resolved issue with compressor fuel calculation when suction node pressure is set as known.
	06/01/2009	Resolved issue with gas mixing calculation.  Resolved issue with applying calculated gas properties when accessed from the pop-up node data screen.  Resolved line color issue loading dxf images attached to older version model files.



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Revision	Date	Description
039	05/27/2009	<p>Enhanced compressor handling in the solution routine to automatically apply fuel usage to upstream node of a compressor station.</p> <p>Added the option to select features using an irregular polygon when using any of the multi-edit routines in the GDI.</p> <p>Resolved issue with setting customer load units when using a diversified node application style in the customer report.</p> <p>Resolved issue with applying new coordinate and length units using the Set Defaults routine.</p> <p>Added the following commands to the GDI command list for the Design Modules:</p> <ul style="list-style-type: none"> <li>Connect Pipe Ends</li> <li>Convert DXF Line To GW Pipe</li> <li>Convert DXF Line To GW Pipe and Offset Location</li> <li>Match Customer Attribute Values</li> <li>Match Pipe Attribute Values</li> </ul> <p>Added the following command to the GDI command list:</p> <ul style="list-style-type: none"> <li>Highlight DXF Line</li> </ul> <p>Resolved node undo issue when restoring after using the Move Pipe End command.</p> <p>Enabled display of Title Block Definition item in Edit menu list for Design Module Users.</p> <p>Resolved issue with default heating value conversion in Design Module Conversion routine.</p> <p>Added “Merge,” “Set As Current,” “Sort Ascending,” and “Sort Descending” commands to Property Table Report.</p> <p>Resolved issue with appending models.</p> <p>Resolved issue with opening incomplete legend initialization file.</p> <p>Revised to accommodate new property table formats.</p>
034	02/25/2009	<p>Added support for IAPMO pipe flow equations.</p> <p>Resolved issue with updating external loads when no customers are attached to the model.</p> <p>Miscellaneous program maintenance.</p>



Revision	Date	Description
032	12/18/2008	<p>Resolved issue with occasional pipe sizing failure on a system containing multiple pressure zones separated by a regulator or compressor.</p> <p>Revised pipe sizing algorithm to handle configurations that previously could not be properly sized because the “diversity loop limit” had been exceeded.</p> <p>Resolves issues with editing values for very large User Graphic Lines and Symbols.</p> <p>Miscellaneous program maintenance.</p>
031	11/24/2008	<p>Resolves issue with display of legend text.</p> <p>Resolves various issues with the import and export of Stoner PD/XY files.</p> <p>Resolves issue with exporting customer data to XLS 4.0 format.</p>
030	1031/2008	<p>Resolves an issue with restoring node data changes.</p> <p>Resolves an issue with the pipe and customer data screens when they are closed without saving (pressing the Enter key) when making a manual entry in the attribute data list.</p>
	10/30/2008	<p>Resolves an issue with incorrect import of GASWorkS 7.0 Annual Usage value when entered in dimensional units other than Therms.</p>



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