

Release Date	New Features and Changes	
	Firmware and Software	Samples Tutorial
20.07.08	<p>Maestro 4.3.3.3 date 20.07.2008</p> <ul style="list-style-type: none"> • Support for the Multi Maestro User Message mechanism was added to the TNElmoS server. • CAN BUS Configurator : <ul style="list-style-type: none"> ▪ Improved manual editing, node table - including the ability to add multiple nodes in one session, online verification for changed or conflicted nodes and when changing the defaults • Fixed Maestro Command Interpreter Help system. • Fixed Maestro Software Manual (in processes from draft version to finalize Software Manual) • Added Maestro Program Priority support. • Adding possibility sending through Maestro Simple IQ index Commands, allows Index value as variable (like QP[i],QV[i], QT[i], UI[i],UF[i]....). • Fixed Elmo Studio Watch window. <ul style="list-style-type: none"> ▪ User can monitor static variable value during Maestro Program debugging process. • Added the ability to work with the Elmo Motion Axis, DS402 Motion Axis, DS401 CAN I/O and simultaneously treat them as DS301 Node objects. • Added support for the Node guard mechanism. 	<p>New Samples date 20.07.2008</p> <ol style="list-style-type: none"> 1. User program priority <ul style="list-style-type: none"> • UserProgramPriority 2. Index command using <ul style="list-style-type: none"> • DemoIndex • EcamTest • PvtIndex
28.02.08	<p>Maestro 4.3.2.1 date 28.02.2008</p> <ol style="list-style-type: none"> 1. Added the ability to send CANopen messages to DS301 objects (nodes). 2. Improved IP Address handling 3. Fix bug: memory leak in TNElmo.exe 	
12.09.07	<p>Maestro 4.3.1.0 date 03. 09 2007</p> <ol style="list-style-type: none"> 1. Establish compatibility with other DS402 devices (Maxson). 2. Fix bug in Maestro compiler (using an expression that includes operations with vectors and groups as a function argument) 	
08.07.07	<p>Maestro 4.3.0.2 date 08. 07 2007</p> <ol style="list-style-type: none"> 1. Added ModBus (TCP / RS232) support 2. Added IP address control on Maestro startup 	<p>New Samples dated 08. 07 2007</p> <ol style="list-style-type: none"> 1. ModBus Protocol <ul style="list-style-type: none"> Serial\ masterProg Serial\ slaveProg TCP \ masterProg TCP \ slaveProg

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18.03.07	<p>Maestro 4.2.0.6 date 12. 03 2007</p> <ol style="list-style-type: none"> Added new motion object - Dynamic Group Added kernel object - Static Variables Added new motion object - 3D Vector Ethernet/IP Protocol support 	<p>New Samples dated 12. 03 2007</p> <ol style="list-style-type: none"> Dynamic Group GroupAsArrayOfAxes. IsOkPolling. PollingWithRefresh Static Variables StaticVarSamples\MultiDimArray\ArrSize StaticVarSamples\Array\Float\WhileOp StaticVarSamples\SimpleVar\Integer\IfOp 3D Vector Rectangle_3D. Spline_3D. Helix. Ethernet/IP Protocol TagTest AssemblyTest
11.09.06	<p>Maestro 3, 1, 2, 0 date 11. 09 2006</p> <p>Bug fixes:</p> <ol style="list-style-type: none"> Multi-tasking timing is affected by loop structure and causes delays. Problems with group arrays when they are used as a function parameter. Resulted in stack corrupted errors. 	
14.08.06	<p>Maestro 3, 1, 1, 2 date 08. 08 2006</p> <ol style="list-style-type: none"> Improved HOST communication performance From this version the CAN bus terminators MUST be used explicitly. Improved Virtual Machine (program runtime) timing. 	<p>New Samples dated 08.08.2006</p> <ol style="list-style-type: none"> GetArraySize TwoDimArray (review) RS232 using (MaestroSerial.zip)
21.05.06	<p>Maestro 2, 17, 1, 7 date 21.05.2006(beta2)</p> <ol style="list-style-type: none"> The digital output default polarity was modified from HIGH level to LOW level (normal close to normal open). This enables flexibility in the how the digital output can be connected. Improved behavior of kill command 	<p>New Samples dated 21.05.2006(beta2)</p> <ul style="list-style-type: none"> DS402 - Improved instructions on how to use CAN DS402 protocol.
30.04.06	<p>Maestro 2, 17, 1, 7 date 30.04.2006(beta)</p> <ol style="list-style-type: none"> CAN BUS Configurator Update Adding supports CAN DS402 Adding new language's functions: save()/load()-for save/load global variable and array 	<p>New Samples dated 30.04.2006(beta)</p> <ul style="list-style-type: none"> DS402 - how to use CAN DS402 protocol <p>SaveAndLoad-how to use new language; functions: save()/ load()</p>
01.12.05	<p>Maestro 1.16.0.0 date 01.12.2005</p> <ol style="list-style-type: none"> CAN BUS Configurator Adding supports CAN I/O DS401 <ul style="list-style-type: none"> CAN digital input CAN digital output 	<p>New Samples dated 01.12.2005</p> <ul style="list-style-type: none"> DS401 - how to use CAN digital I/O <p>Group Motion Object -describes how to use GROUP as an AXIS array</p>

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15.09.05	<p>Maestro 1.0.2.1 dated 19.09.2005</p> <ol style="list-style-type: none"> Maestro I/O: <ul style="list-style-type: none"> digital input <ul style="list-style-type: none"> input callback function function for reading digital input port digital output <ul style="list-style-type: none"> reading/ writing from/to digital output port analog input <ul style="list-style-type: none"> reading from analog input port Adding callback functions: <ul style="list-style-type: none"> motioncompleted - callback occurs when motion is completed for axis, vectors and groups input - callback occurs on a Maestro's input event or a SimplIQ's input event emit - callback occurs on a SimplIQ's program emit event emcy - callback occurs on a SimplIQ's program emcy event Notification message from Maestro to host - Maestro user program can send a message to the host program building by MaestroAPI lib. New Operators: <ul style="list-style-type: none"> until(val) wait(val,time) Functions for getting system time: <ul style="list-style-type: none"> system()- resolution milliSec systemex() resolution microSec Maestro API library supports Borland Builder 6+ <ul style="list-style-type: none"> \MaestroApi\API Dll contains MacApiB6.lib and MacAPI.dll \MaestroApi\Samples\B6Demo example how to use MaestroAPI with Borland Builder 6++ \MaestroApi\Doc contains APIDLL.doc - manual 	<p>New Samples dated 19.09.2005</p> <ul style="list-style-type: none"> Adddwell - shows how to pause at a specific point on the trajectory Array Samples <ul style="list-style-type: none"> DrillMachine - XY table with Z-axis motion example CallbackFunctions - see examples below: <ul style="list-style-type: none"> EmcyCallback - called when the CANopen EMERGENCY message appears on the bus Emit Callback -called by a SimplIQ program emit event Emit - different approach to above HeartbeatCallBack -called when the CAN node state is changed InputCallBack - called when an input event occurs at the Maestro or SimplIQ drive <ul style="list-style-type: none"> InputCallback - InputOutputTest1 - shows a program that changes the output according to the changes in input InputOutputTest2 - different approach to above MotionCompleteCallBack - called when motion is completed and event is generated <ul style="list-style-type: none"> MCompleteCallback <ul style="list-style-type: none"> AxisMotionComplete VectorMotionComplete GroupMotionComplete MotionCompleteTest PerorrCallBack - called when a runtime error occurs
15.09.05	<p>Maestro Ver. 1.0.2.1 is designed to work with the following desktop software:</p> <ul style="list-style-type: none"> Composer (Composer 2.14.0.1 dated 15.09.2005) Elmo Studio (PEditor 2.3.0.8 dated 19.09.2005) Recorder (Recorder 1.0.1.0 dated 19.09.2005) Compiler (Jazz 1.1.0.2 dated 19.09.2005) 	<ul style="list-style-type: none"> MaestroAnalogInputs - example of how to use the Maestro analog inputs SendMessage - used to send messages to the desktop VectorAxisMove - Example of how to coordinate the movement of three axes (when two of the axes are connected to a vector).
24.08.05	<p>Initial Release: Maestro 1.0.1.6 dated 24.08.05</p> <p>Maestro Ver. 1.0.1.6 is designed to work with the following desktop software:</p> <ul style="list-style-type: none"> Composer (Composer 2.13.0.1 dated 28.08.2005) Elmo Studio (PEditor 2.3.0.4 dated 28.08.2005) Recorder (Recorder 1.0.0.1 dated 19.06.2005) Compiler (Jazz 1.1.0.1 dated 30.08.2005) 	<p>Initial Release</p>

