

# **SYSTEM**

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Bintec User's Guide - XGeneration  
Version 1.0

<b>Purpose</b>	This document is part of the user's guide to the installation and configuration of Bintec gateways running software release 7.1.14 or later. For up-to-the-minute information and instructions concerning the latest software release, you should always read our <b>Release Notes</b> , especially when carrying out a software update to a later release level. The latest <b>Release Notes</b> can be found at <a href="http://www.bintec.net">www.bintec.net</a> .
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<b>1</b>	<b>System Menu .....</b>	<b>3</b>
<b>2</b>	<b>Submenu External Activity Monitor .....</b>	<b>7</b>
<b>3</b>	<b>Submenu External System Logging .....</b>	<b>9</b>
<b>4</b>	<b>Submenu Schedule &amp; Monitor .....</b>	<b>11</b>
4.1	Submenu Keepalive Monitoring (Hosts & Ifc) .....	11
4.2	Submenu Event Scheduler (Time & SNMP) .....	16
4.2.1	Configuration of triggers (Events) .....	17
4.2.2	Configuration of the Action (Command) .....	23
<b>5</b>	<b>Submenu Password Settings .....</b>	<b>29</b>
<b>6</b>	<b>Submenu Time and Date .....</b>	<b>31</b>
	<b>Index: System .....</b>	<b>33</b>



# 1 System Menu

The fields of the **SYSTEM** menu are described below.

X2302 Setup Tool [SYSTEM] : Change System Parameters		Bintec Access Networks GmbH MyGateway
System Name	x2302	
Local PPP ID (default)	x2302	
Location	European Union	
Contact	BINTEC	
Syslog Output on Serial Sonsole	no	
Message Level for the Syslog Table	info	
Maximum Number of Syslog Entries	20	
External Activity Monitor >		
External System Logging >		
Schedule & Monitor >		
Password Settings >		
Time and Date >		
SAVE	CANCEL	

The **SYSTEM** menu is used for e.g. entering the basic system data of your gateway.

The **SYSTEM** menu consists of the following fields:

Field	Description
System Name	Defines the system name of your gateway; is also used as PPP host name. Appears as input prompt when logging in to the device.  The device type is entered as default value.
Local PPP ID (default)	This entry is necessary to identify your gateway if the remote gateway requests the PPP ID before the gateway has identified itself to the remote terminal.  The device type is entered as default value.

Field	Description
Location	<p>Indicates where your gateway is located.            Default value: <i>European Union</i>            Is shown, for example, on the HTML system information page or in the login message.</p>
Contact	<p>Indicates the responsible contact person. Here you can enter the e-mail address of the system administrator, for example.            Default value: <i>BINTEC</i>.            Is shown, for example, on the HTML system information page.</p>
Syslog Output on Serial Console	<p>Enables the display of syslog messages on the PC connected to the serial interface of the <b>XGeneration</b> gateway. Use this setting only if you make a fault analysis, as a very large output over the serial console adversely affects the throughput of the other interfaces.            You should normally use <b>EXTERNAL SYSTEM LOGGING</b>. Possible values:</p> <ul style="list-style-type: none"> <li>■ yes</li> <li>■ no (default value)</li> </ul>

Field	Description
Message Level for the Syslog Table	<p>Specifies the priority of the syslog messages to be recorded internally. Possible values:</p> <ul style="list-style-type: none"> <li>■ <i>emerg</i>: emergency messages (highest priority)</li> <li>■ <i>alert</i>: alert messages</li> <li>■ <i>crit</i>: critical messages</li> <li>■ <i>err</i>: error messages</li> <li>■ <i>warning</i>: warning messages</li> <li>■ <i>notice</i>: notice messages</li> <li>■ <i>info</i> (default value): info messages</li> <li>■ <i>debug</i>: debug messages (lowest priority)</li> </ul> <p>Syslog messages are only recorded internally if they have a higher or identical priority to that indicated, i.e. all messages generated are recorded at syslog level <i>debug</i>.</p>
Maximum Number of Syslog Entries	<p>Maximum number of syslog messages saved internally in the <b>XGeneration</b> gateway (possible values: 0 ... 1000).</p> <p>Default value: 20.</p> <p>You can show the saved messages in the Setup Tool under <b>MONITORING AND DEBUGGING</b> → <b>MESSAGES</b>.</p>

Table 1-1: **SYSTEM** menu fields



## 2 Submenu External Activity Monitor

The fields of the **EXTERNAL ACTIVITY MONITOR** submenu are described below.

X2302 Setup Tool		Bintec Access Networks GmbH
[SYSTEM] : [ACTIVMON] : External Activity Monitor		MyGateway
Client IP Address	255.255.255.255	
Client UDP Port	2107	
Type	off	
Update Interval (sec)	5	
<b>SAVE</b>		<b>CANCEL</b>

The **SYSTEM → EXTERNAL ACTIVITY MONITOR** menu contains the settings necessary for monitoring your **XGeneration** gateway with the Windows Activity Monitor tool (part of **BRICKware for Windows**).

**Purpose** The **Activity Monitor** enables Windows users to monitor the activities of the gateway. Important information about the status of physical interfaces (e.g. ISDN line) and virtual interfaces (e.g. WAN partner) is easily obtained with one tool. A permanent overview of the utilization of the gateway is possible.

**Method of operation** A Status Daemon collects information about the gateway and transfers it in the form of UDP packets to the broadcast address of the first LAN interface (default setting) or to an explicitly entered IP address. One packet is sent per time interval, which can be adjusted individually to values from 1 - 60 seconds. Up to 100 physical and virtual interfaces can be monitored, provided the packet size of 4,096 bytes is not exceeded. The Activity Monitor on your PC receives the packets and can display the information contained in them in various ways according to configuration.

Activate the **Activity Monitor** as follows:

- Configure the relevant gateway(s) to be monitored.

- Start and configure the Windows application on your PC (see **BRICKware for Windows**).

The **EXTERNAL ACTIVITY MONITOR** menu consists of the following fields:

Field	Description
Client IP Address	IP address to which the gateway sends the UDP packets. The default value 255.255.255.255 means that the broadcast address of the first LAN interface is used.
Client UDP Port	Port number for the Bintec Activity Monitor (default value: 2107, registered by IANA - Internet Assigned Numbers Authority).
Type	Type of information sent in the UDP packets to the Windows application. Possible values: <ul style="list-style-type: none"> <li>■ <i>off</i>: Deactivates the <b>Activity Monitor</b> (default value)</li> <li>■ <i>physical</i>: Only information about physical interfaces</li> <li>■ <i>physical_virt</i>: Information about physical and virtual interfaces</li> </ul>
Update Interval (sec)	Update interval in seconds. Possible values: 0 to 60 (default value: 5). The value 0 deactivates the function.

Table 2-1: **EXTERNAL ACTIVITY MONITOR** menu fields

## 3 Submenu External System Logging

The fields of the **EXTERNAL SYSTEM LOGGING** submenu are described below.

The **SYSTEM → EXTERNAL SYSTEM LOGGING** menu shows the log host settings.

X2302 Setup Tool [SYSTEM] [LOGGING] [ADD]	Bintec Access Networks GmbH MyGateway
Log Host	
Level	info
Facility	local0
Type	all
Timestamp	none
SAVE	CANCEL

Events in the various subsystems of the gateway (e.g. ►► **PPP**) are logged in the form of syslog messages (system logging messages), [see “System Menu” on page 3](#). The number of messages visible depends on the level set (eight steps from *emerg* and *info* to *debug*).

In addition to the data logged internally on the gateway, all information can and should also be passed to one or more external PCs for storage and processing, e.g. to the system administrator’s PC. The syslog messages saved internally on the gateway are lost on a restart.



Make sure you only pass syslog messages to a safe computer. Check the data regularly and ensure that there is always enough spare capacity available on the hard disk of your PC.

### Syslog Daemon

All Unix operating systems support the recording of syslog messages. For Windows PCs, the Syslog Daemon included in the **DIME Tools** can record the data and distribute to various files depending on the contents (see **BRICKware for Windows**).

The settings for saving syslog messages externally are made in **SYSTEM → EXTERNAL SYSTEM LOGGING → ADD/EDIT**.

The menu consists of the following fields:

Field	Description
Log Host	►► <b>IP address</b> of the host to which syslog messages are passed.
Level	Priority of the syslog messages to be sent to <b>Log Host</b> . The possible values correspond to those in “ <a href="#">Message Level for the Syslog Table</a> ” on page 5.  Only syslog messages with the same or higher priority than indicated are passed to the <b>Log Host</b> , i.e. all the messages created are passed to the <b>Log Host</b> in syslog <b>LEVEL Debug</b> .
Facility	Syslog facility at <b>Log Host</b> . Only required if the <b>Log Host</b> is a Unix computer.  Possible values: <i>local0 - 7</i> (default value <i>local0</i> ).
Type	Message type. Possible values: <ul style="list-style-type: none"> <li>■ <i>all</i>: All messages (default value)</li> <li>■ <i>system</i>: Syslog messages except ►► <b>accounting</b> messages.</li> <li>■ <i>accounting</i>: Accounting messages</li> </ul>
Timestamp	Format of the system time of the <b>XGeneration</b> gateway in the syslog. Possible values: <ul style="list-style-type: none"> <li>■ <i>all</i>: System time with date</li> <li>■ <i>time</i>: System time without date</li> <li>■ <i>none</i>: No system time shown (default value)</li> </ul>

Table 3-1: **EXTERNAL SYSTEM LOGGING** menu fields

## 4 Submenu Schedule & Monitor

The fields of the **SCHEDULE & MONITOR** submenu are described below.

The **SCHEDULE & MONITOR** menu offers access to other submenus:

- **KEEPALIVE MONITORING (HOSTS & IFC)**
- **EVENT SCHEDULER (TIME & SNMP)**

### 4.1 Submenu Keepalive Monitoring (Hosts & Ifc)

The **SYSTEM → SCHEDULE & MONITOR → KEEPALIVE MONITORING** menu contains settings for the "Keepalive Monitoring" feature.

**SYSTEM → SCHEDULE & MONITOR → KEEPALIVE MONITORING** lists the *hosts* and *interfaces* monitored by Keepalive Monitoring. The reachability of the hosts is listed under **STATE**: *alive* if the host was reachable on the last check, *down* if the host was not reachable.

The **WHAT TO MONITOR:** menu is used to set whether the configuration is made for *hosts* or *interfaces*.

**WHAT TO MONITOR:** hosts

X2302 Setup Tool		Bintec Access Networks GmbH
[SYSTEM] [KEEPALIVE MONITORING] [ADD] : Host Monitoring		MyGateway
Group	0	
IPAddress		
Interval	300	
Trials		
Source IP		
DownAction	down	
FirstIfIndex	10001	
Range	4999	
SAVE		CANCEL

If *hosts* has been selected, the **KEEPALIVE MONITORING → ADD/EDIT** menu consists of the following fields:

Field	Description
Group	Defines a group of hosts, whose reachability is to be monitored by the <b>XGeneration</b> gateway. Each host to be monitored is assigned to a group. A total of 256 groups can be created. Possible values: 0 (default value) ... 255.
IP Address	Defines a host that is to be monitored by the <b>XGeneration</b> gateway.
Interval	Defines the time interval in seconds to be used for checking the reachability of hosts. Possible values: 1 ... 65536 (default value: 300 s). The smallest <b>INTERVAL</b> of the group members is used within a group.
Trials	Defines the number of pings, that are sent to check the availability of hosts. Possible values: 1 ... 65536 (default value: 3).

Field	Description
Source IP	The IP address that the gateway uses as source address of the packet sent to the host to be monitored.
DownAction	<p>Defines how the status of the <b>XGeneration</b> gateway interfaces selected in <b>FIRSTIFINDEX</b> and <b>RANGE</b> is set if all hosts in a group are not reachable. Possible values:</p> <ul style="list-style-type: none"> <li>■ <i>down</i>: Interfaces are deactivated, i.e. admin status is set to <i>down</i>. (Default value)</li> <li>■ <i>none</i>: No action, i.e. admin status is set to <i>up</i>.</li> <li>■ <i>up</i>: Interfaces are activated.</li> </ul> <p>The status of the interfaces is set to the original value again when at least one host in a group can be reached again.</p> <p>Note: <b>DOWNACTION</b> must be configured identically within a group!</p>
FirstIfIndex	<p>Defines the first interface of an interface range in the <b>XGeneration</b> gateway, for which the action (<i>down</i> or <i>up</i>) defined under <b>DOWNACTION</b> is to be executed.</p> <p>Possible values: 100 .. 65536</p> <p>Default value: 10001</p> <p>Interfaces with indices from 10001 to 14999 are provided for dialup connections to WAN partners. You can find the indices of the interfaces with, for example, the command <code>ifstat</code>.</p>

Field	Description
Range	<p>Defines the range of interfaces in the <b>XGeneration</b> gateway, for which the action defined under <b>DOWNACTION</b> is to be executed.</p> <p>Default value: 4999</p> <p>If you set <b>FIRSTIFINDEX</b> = 10001 and <b>RANGE</b> = 0, only the interface with the index 10001 is affected.</p> <p>If you set <b>FIRSTIFINDEX</b> = 10001 and <b>RANGE</b> = 19, the interfaces with the indices 10001 to 10020 are affected.</p>

Table 4-1: Fields in **KEEPALIVE MONITORING hosts** menu**WHAT TO MONITOR: Interfaces**

VX2302 Setup Tool	Bintec Access Networks GmbH										
[SYSTEM] [KEEPALIVE MONITORING] [ADD]: Interface Monitoring	MyGateway										
<table> <tr> <td>Interface</td> <td>0</td> </tr> <tr> <td>Trigger</td> <td>down</td> </tr> <tr> <td>Action</td> <td>none</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>SAVE</td> <td>CANCEL</td> </tr> </table>		Interface	0	Trigger	down	Action	none			SAVE	CANCEL
Interface	0										
Trigger	down										
Action	none										
SAVE	CANCEL										

If **WHAT TO MONITOR: interfaces** has been selected, the **KEEPALIVE MONITORING → ADD/EDIT** menu consists of the following fields:

Field	Description
Interface	<p>Defines the interface to be monitored in the <b>XGeneration</b> gateway.</p> <p>Enter the interface <b>INDEX</b> here. The <b>INDEX</b> can be determined, for example, with the command <code>ifstat</code>.</p> <p>Default value: 0.</p>

Field	Description
Trigger	<p>Defines the status of <b>INTERFACE</b>, which initiates a certain <b>ACTION</b>.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>■ <i>down</i>: Interface is deactivated (default value)</li> <li>■ <i>up</i>: Interface is activated</li> </ul>
Action	<p>Defines the action that is to follow the status defined in <b>TRIGGER</b>. The action is executed on the interface range from <b>FIRSTIFINDEX</b> and <b>FIRSTIFINDEX + RANGE</b>.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>■ <i>none</i>: No action (default value)</li> <li>■ <i>down</i>: Deactivation of interface(s)</li> <li>■ <i>up</i>: Activation of interface(s)</li> </ul>
FirstIfIndex	<p>Defines the first interface of an interface range in the <b>XGeneration</b> gateway, for which the action (<i>down</i> or <i>up</i>) defined under <b>DOWNACTION</b> is to be executed.</p> <p>Possible values: 100 .. 65536</p> <p>Default value: 10001</p> <p>Interfaces with indices from 10001 to 14999 are provided for dialup connections to WAN partners. You can find the indices of the interfaces with, for example, the command <code>ifstat</code>.</p>

Field	Description
Range	<p>Defines the range of interfaces in the <b>XGeneration</b> gateway, for which the action defined under <b>ACTION</b> is to be executed.</p> <p>If you set <b>FIRSTIFINDEX</b> = 10001 and <b>RANGE</b> = 0, only the interface with the index 10001 is affected.</p> <p>If you set <b>FIRSTIFINDEX</b> = 10001 and <b>RANGE</b> = 4999 (default value), the interfaces with the indices 10001 to 14999 are affected.</p>

Table 4-2: Fields in **KEEPALIVE MONITORING interfaces** menu

## 4.2 Submenu Event Scheduler (Time & SNMP)

Your gateway is equipped with an event scheduler, which makes it possible to make any entries in the MIB as soon as a certain event (also freely configurable) occurs.

Apart from default and easily configured standard applications like time- or volume-controlled activation or deactivation of interfaces, the event scheduler permits access to any MIB parameter. This means that any event in the MIB can be defined as the trigger of any desired action.



Attention!

The configuration of actions that are not available as defaults requires extensive knowledge of the method of operation of Bintec gateways. An incorrect configuration can cause considerable disturbances in operation. If applicable, save the original configuration e.g. on your PC.

The event scheduler is configured in the **SYSTEM → SCHEDULE & MONITOR → EVENT SCHEDULER (TIME & SNMP)** menu:

X2302 Setup Tool	Bintec Access Networks GmbH
[SYSTEM] [SCHEDULED] : Event Schedule	MyGateway
Event Scheduler	disabled
Schedule Events >	
Schedule Commands >	
SAVE	CANCEL

Activate (*enabled*) or deactivate (*disabled*) the scheduler in the **EVENT SCHEDULER** field; the default setting is deactivated. When the **EVENT SCHEDULER** is activated, the schedule interval is set to 300s as default. Configure the events that are to initiate a certain action at the gateway in the **SCHEDULE EVENTS** menu and the actions to be executed in the **SCHEDULE COMMANDS** menu. The triggers (events) can be linked to event chains, so that complex conditions for initiating an action can also be created.

#### 4.2.1 Configuration of triggers (Events)

The events that initiate a relevant action are created and edited in the **SYSTEM → SCHEDULE & MONITOR → EVENT SCHEDULER (TIME & SNMP) → SCHEDULE EVENTS → ADD/EDIT** menu.

The default menu opens with the mask for configuring an event of the *time* type:

X2302 Setup Tool		Bintec Access Networks GmbH
[SYSTEM] [SCHEDULED] [SCHED_EVT] [ADD] : Scheduler Events		MyGateway
<hr/>		
Index	1	Description
NextIndex	none	
Type	time	
Condition	daily	
Start time (hh:mm)		
End time (hh:mm)		
Status	notavail	
SAVE		CANCEL
<hr/>		
<hr/>		

If you select **TYPE = value**, the menu changes as follows:

X2302 Setup Tool		Bintec Access Networks GmbH
[SYSTEM] [SCHEDULED] [SCHED_EVT] [ADD] : Scheduler Events		MyGateway
<hr/>		
Index	1	Description
NextIndex	none	
Type	value	
Monitored event	user defined	
Table		
Variable		
Index variable		
Index value		
Condition	range	
Compare value		
End value		
Status	notavail	
SAVE		CANCEL
<hr/>		
<hr/>		

The menu contains the following fields depending on the setting:

Field	Description
Index	The gateway assigns an index number for the entry automatically. This value can also be edited. Possible settings are all values from 1 to 65535.
Description	Here you enter the desired description for the event. The maximum length of the entry is 30 characters.
NextIndex	Here you select from the existing entries the entry that is to follow the current entry in an event chain. The entries in an event chain form a complex condition for an action to be executed. How the event chain leads to an action is configured in the <b>SYSTEM → SCHEDULE &amp; MONITOR → EVENT SCHEDULER (TIME &amp; SNMP) → SCHEDULE COMMANDS</b> menu.
Type	Here you select which type of event is to initiate an action:  Possible settings: <ul style="list-style-type: none"> <li>■ <i>time</i> - The action is initiated at certain times (default value). Please make sure the gateway system time is set correctly!</li> <li>■ <i>value</i> - The action is initiated as soon as a MIB variable becomes a certain value.</li> </ul>

Field	Description
Monitored event	<p>Only for <b>TYPE</b> = <i>value</i>.        Here you can choose between different events.        Possible settings:</p> <ul style="list-style-type: none"> <li>■ <i>user defined</i> - You can choose which of the values and MIB variables the scheduler is to respond to with an action (default value).</li> <li>■ <i>WAN interface total charge</i> - A trigger becomes active if a certain total charge limit is reached for all connections at a WAN interface (the interface is selected on configuring the action). The gateway must receive charging information from the provider for this purpose.</li> <li>■ <i>WAN interface total duration</i> - A trigger becomes active if the total duration of all connections of a WAN interface (in seconds) has reached a certain value.</li> <li>■ <i>WAN interface total RX traffic</i> - A trigger becomes active if a WAN interface has received a certain total amount of data (in bytes) for all connections.</li> <li>■ <i>WAN interface total TX traffic</i> - A trigger becomes active if a WAN interface has sent a certain total amount of data (in bytes) for all connections.</li> </ul>
Table	<p>Only for <b>MONITORED EVENT</b> = <i>user defined</i>.        Here you enter the name of the MIB table containing the MIB variable that is to be used for the trigger, e.g. <b>BIBOPPPSTATTABLE</b>.</p>

Field	Description
Variable	Only for <b>MONITORED EVENT = user defined</b> . Here you enter the name of the MIB variable that is to be used for the trigger, e.g. <b>TOTALDURATION</b> .
Index variable	Only for <b>MONITORED EVENT = user defined</b> . Here you enter the name of the index variable of the previously defined MIB table. This is the variable marked with an asterisk (*) in the table view of the desired MIB table, e.g. <b>CONNIFINDEX</b> .
Index value	Only for <b>MONITORED EVENT = user defined</b> . Here you enter the value of the <b>INDEX VARIABLE</b> for the table entry that is to be used for the trig- ger, e.g. <b>10001</b> .

Field	Description
Condition	<p>For <b>TYPE</b> = <i>time</i>:</p> <ul style="list-style-type: none"> <li>■ <i>daily</i> - The trigger becomes active daily (default value).</li> <li>■ <i>&lt;day of week&gt;</i> - The trigger becomes repeatedly active on a certain day of the week.</li> <li>■ <i>mon_fri</i> - The trigger becomes active daily from Monday to Friday.</li> <li>■ <i>sat_sun</i> - The trigger becomes repeatedly active on Saturdays and Sundays only.</li> <li>■ <i>day &lt;1 .. 31&gt;</i> - The trigger becomes repeatedly active on a certain day of the month.</li> </ul> <p>For <b>TYPE</b> = <i>value</i>:</p> <ul style="list-style-type: none"> <li>■ <i>range</i> - The trigger becomes active if the value of the variable is in a certain range (default value).</li> <li>■ <i>greater</i> - The trigger becomes active if the value of the variable exceeds a certain value.</li> <li>■ <i>equal</i> - The trigger becomes active if the value of the variable is a certain value.</li> <li>■ <i>less</i> - The trigger becomes active if the value of the variable is below a certain value.</li> <li>■ <i>notequal</i> - The trigger becomes active if the value of the variable is not a certain value.</li> </ul>
Compare value	<p>Value with which the value of <b>VARIABLE</b> is compared under the condition defined in <b>CONDITION</b>. If <b>CONDITION</b> = <i>range</i>, this is the start value of the range of values.</p>

Field	Description
End value	If <b>CONDITION = range</b> , this is the end value of the range of values.
Start time (hh:mm)	Only for <b>TYPE = time</b> . Here you enter the time at which the trigger is to be activated.
End time (hh:mm)	Only for <b>TYPE = time</b> . Here you enter the time at which the trigger is to be deactivated.
Status	This field cannot be edited and shows the status of the trigger. Possible values: <ul style="list-style-type: none"> <li>■ <i>active</i> - The trigger is currently active.</li> <li>■ <i>inactive</i> - The trigger is inactive.</li> <li>■ <i>notavail</i> - The status cannot be determined, e.g. if the scheduler is not activated.</li> <li>■ <i>error</i> - An error has occurred; the configuration of the trigger is not consistent.</li> </ul>

Table 4-3: **SYSTEM → SCHEDULE & MONITOR → EVENT SCHEDULER (TIME & SNMP) → SCHEDULE EVENTS → ADD/EDIT**

#### 4.2.2 Configuration of the Action (Command)

The action executed as soon as one of the events configured as trigger occurs is created or edited in the **SYSTEM → SCHEDULE & MONITOR → EVENT SCHEDULER (TIME & SNMP) → SCHEDULE COMMANDS → ADD/EDIT** menu.

The default menu opens for configuring the actions as follows:

X2302 Setup Tool			Bintec Access Networks GmbH	
[SYSTEM] [SCHEDULED] [SCHED_CMD] [ADD] : Scheduler Commands			MyGateway	
Index	1	Description		
Mode		enable		
1. Event Index		none		
Eventlist Condition		all		
Execute command		disable interface		
Interface		en1-0		
Notify		all		
Status	notavail	Last Change	01/01/1970 0:00:00	
	SAVE		CANCEL	

If you select the value *user defined* for the **EXECUTE COMMAND** field, the menu changes as follows:

X2302 Setup Tool			Bintec Access Networks GmbH	
[SYSTEM] [SCHEDULED] [SCHED_CMD] [ADD] : Scheduler Commands			MyGateway	
Index	1	Description		
Mode		enable		
1. Event Index		none		
Eventlist Condition		all		
Execute command		user defined		
Table				
Variable				
Index variable				
Index value				
Set value active				
value inactive				
Notify		all		
Status	notavail	Last Change	01/01/1970 0:00:00	
	SAVE		CANCEL	

The menu contains the following fields depending on the setting selected:

Field	Description
Index	The gateway assigns an index number for the entry automatically. This value can also be edited. Possible settings are all values from 1 to 65535.
Description	Here you enter the desired description for the action. The maximum length of the entry is 30 characters.
Mode	Here you select if the configured action is to be active or inactive. Possible settings: <ul style="list-style-type: none"><li>■ <i>enable</i> (default value)</li><li>■ <i>disable</i></li></ul>
1. Event Index	Here you define the first event of an event chain. The event chain is activated only by this entry, preceding entries are ignored. The default value is <i>none</i> .

Field	Description
Eventlist Condition	<p>Here you define whether all the entries of an event chain must occur before an action is executed.</p> <p>Possible settings:</p> <ul style="list-style-type: none"> <li>■ <i>all</i> - All events of an event chain must occur if the action is to be executed (default value).</li> <li>■ <i>one</i> - At least one of the events of an event chain must occur if the action is to be executed.</li> <li>■ <i>none</i> - None of the events of an event chain may occur if the action is to be executed.</li> <li>■ <i>one_not</i> - At least one of the events of an event chain must not occur if the action is to be executed.</li> </ul>
Execute command	<p>Here you define the action that is executed by a trigger.</p> <p>Possible settings:</p> <ul style="list-style-type: none"> <li>■ <i>disable interface</i> - The interface set in the <b>INTERFACE</b> field is deactivated (its <b>ADMINSTATUS</b> is set to <i>down</i>, default value).</li> <li>■ <i>enable interface</i> - The interface set in the <b>INTERFACE</b> field is activated (its <b>ADMINSTATUS</b> is set to <i>up</i>).</li> <li>■ <i>user defined</i> - The action is configured as desired in the following fields.</li> </ul>
Interface	<p>Here you select which interface is to be activated or deactivated if <i>disable interface</i> or <i>enable interface</i> is selected for <b>EXECUTE COMMAND</b>.</p>

Field	Description
Table	Only for <b>EXECUTE COMMAND = user defined</b> . Here you enter the MIB table containing the variable to be set, e.g. <i>ifTable</i> .
Variable	Only for <b>EXECUTE COMMAND = user defined</b> . Here you enter the MIB variable to be set, e.g. <i>AdminStatus</i> .
Index variable	Only for <b>EXECUTE COMMAND = user defined</b> . Here you enter the index variable of the previously selected MIB table. This is the variable marked with an asterisk (*) in the table view of the desired MIB table, e.g. <i>Index</i> .
Index value	Only for <b>EXECUTE COMMAND = user defined</b> . Here you enter the value of the index variable for the table entry that is to be changed by the action, e.g. <i>10001</i> .
Set value active	Only for <b>EXECUTE COMMAND = user defined</b> . Here you enter the value the <b>VARIABLE</b> is to be assigned by the action. The value is set as soon as an appropriate trigger becomes active and is retained until the trigger becomes inactive again.
value inactive	Only for <b>EXECUTE COMMAND = user defined</b> . Here you enter the value the <b>VARIABLE</b> is to become as soon as the trigger becomes inactive. This value is also assigned to the variable after a gateway restart or if the system time is not set correctly.

Field	Description
Notify	<p>Here you select the mechanisms to be used to notify actions. Possible settings:</p> <ul style="list-style-type: none"> <li>■ <i>all</i> - Both SNMP traps and syslog messages are generated. (Default value)</li> <li>■ <i>snmptrap</i> - Only SNMP traps are generated.</li> <li>■ <i>syslog</i> - Only syslog messages are generated.</li> <li>■ <i>none</i> - No messages are generated.</li> </ul>
Status	<p>This field cannot be edited and shows the status of the action.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>■ <i>active</i> - The action is currently active.</li> <li>■ <i>inactive</i> - The action is inactive.</li> <li>■ <i>notavail</i> - The status cannot be determined, e.g. if the scheduler is not activated.</li> <li>■ <i>error</i> - An error has occurred; the configuration of the action is not consistent.</li> </ul>
Last Change	<p>Shows the time of the last status change. This field cannot be edited.</p>

Table 4-4: **SYSTEM → SCHEDULE & MONITOR → EVENT SCHEDULER (TIME & SNMP) → SCHEDULE COMMANDS → ADD/EDIT**

## 5 Submenu Password Settings

The fields of the **PASSWORD SETTINGS** submenu are described below.

X2302 Setup Tool	Bintec Access Networks GmbH
[SYSTEM] [PASSWORDS] : Change System Passwords	MyGateway
<pre> admin Login Password/SNMP Community ***** read Login Password/SNMP Community ***** write Login Password/SNMP Community ***** HTTP Server Password ***** Activity Monitor Password ***** </pre>	
SAVE	CANCEL

Setting the passwords is one of the basic system settings. (Detailed information about the user rights of the various users can be found in **Access and Configuration**.)

The **PASSWORD SETTINGS** menu consists of the following fields:

Field	Description
admin Login Password/SNMP Community	Password for user name admin.
read Login Password/SNMP Community	Password for user name read.
write Login Password/SNMP Community	Password for user name write.
HTTP Server Password	Password for the HTTP status page of your gateway.
Activity Monitor Password	Password for the <b>ACTIVITY MONITOR</b> .

Table 5-1: **PASSWORD SETTINGS** menu fields

**Attention!**

All Bintec gateways are shipped with the same user name and password. As long as the password remains unchanged, they are not protected against unauthorized use.

Change the password to prevent unauthorized access to the gateway.

As long as the password remains unchanged, the following warning appears on logging in: "Password not changed".

## 6 Submenu Time and Date

The fields of the **TIME AND DATE** submenu are described below.

X2302 Setup Tool [SYSTEM] [TIME] : Set System Time and Date	Bintec Access Networks GmbH MyGateway
Time is currently controlled by: TIME/UDP Current Time: Tue Jan 13 6:24:52 1970	
New Time: 06:23 New Date: 01/13/1970	
SET	BACK

**System time** You need the system time for tasks such as correct timestamps for system messages, accounting or IPSec certificates.

You can derive the system time:

- automatically, e.g. via a time server. The relevant configuration is made in the **IP → STATIC SETTINGS** menu.
- manually in the gateway.



Note

If a method for deriving the time automatically is set in the gateway, the values obtained in this way have higher priority. Any system time entered manually is overwritten.

The **SYSTEM → TIME AND DATE** menu contains the settings for manually entering the time and date in your gateway.

The **TIME AND DATE** menu consists of the following fields:

Field	Description
Time is currently controlled by:	Shows the settings defined under <b>IP → STATIC SETTINGS</b> for deriving the time automatically.
Current Time:	Shows the system time (date and time) currently set in the <b>XGeneration</b> gateway.
New Time:	Here you enter the new time to be used by the <b>XGeneration</b> gateway (hh:mm).
New Date:	Here you enter the new date to be used by the <b>XGeneration</b> gateway (mm/dd/yyyy).

Table 6-1: **TIME AND DATE** menu fields

# Index: System

<b>Numerics</b>	1st Event index	25
<b>A</b>	Action	15
	Activity Monitor	7
<b>B</b>	Basic system data	3
<b>C</b>	Central server	11
	CLID	11
	Client IP address	8
	Client UDP port	8
	Compare value	22
	Condition	22
	Contact	4
	Current time	32
<b>D</b>	Description	19, 25
	DownAction	13
<b>E</b>	End time	23
	End value	23
	Event protocol	9
	Eventlist condition	26
	Execute command	26
	External Activity Monitor	7
	External system logging	9
<b>F</b>	Facility	10
	FirstIfIndex	13, 15
<b>G</b>	Group	12
<b>H</b>	Hosts	11

<b>I</b>	Index	19, 25
	Index value	21, 27
	Index variable	21, 27
	Interface	14, 26
	Interfaces	11
	Interval	12
	IP address	12
<b>K</b>	Keepalive Monitoring	11
<b>L</b>	LAN	11
	Last change	28
	Level	10
	Local PPP ID (default)	3
	Location	4
	Log host	9, 10
<b>M</b>	Maximum number of syslog entries	5
	Message level for the syslog table	5
	Mode	25
	Monitored event	20
<b>N</b>	New date	32
	New Time	32
	New time	32
	Next index	19
	Notify	28
<b>P</b>	Password settings	29
	Activity Monitor	29
	admin	29
	Ex works state	29
	HTTP server	29
	read	29
	write	29

<b>R</b>	Range	14, 16
<b>S</b>	Set value active	27
	Source IP	13
	Start time	23
	Status	23, 28
	Subsystems	9
	Syslog messages	9
	Syslog output on serial console	4
	System name	3
	System time	31
	Accounting	31
	Automatic	31
	Manual	31
<b>T</b>	Table	20, 27
	Time and date	31
	Time is currently controlled by	32
	Timestamp	10
	Trials	12
	Trigger	15
	Type	8, 10, 19
<b>U</b>	Update interval	8
<b>V</b>	Value inactive	27
	Variable	21, 27

