

FUNCTIONAL OVERVIEW

Preventive Maintenance



***is an automated service technology that extends the company's managed services capabilities and adds remote management and other productivity improvements.
Data centres and VARs are looking for IT automation as a way to reduce costs and create greater efficiencies in heterogeneous environments.***

SCHEDULING				
Feature	Description	Windows	Unix	Linux
Run-Time Environment	Launches any executable (application, script, command line, ...) periodically (every x seconds).	✓	✓	✓
Checking Status	Periodically (every x seconds) checks status of services, processes, performance counters, various logs entries, events, ...	✓	✓	✓
Service Started Event	Use this event to start or continue an automation sequence as soon as the b4 Service starts.	✓	✓	✓
FILE MANAGEMENT				
Feature	Description	Windows	Unix	Linux
Monitor File Event	Monitors file attributes (existence, age, size) on a local or remote computer allowing setting of error and warning threshold.	✓	✓	✓
Monitor Folder Event	Monitors folder attributes (existence, age, size) on a local or remote computer allowing setting of error and warning threshold.	✓	✓	✓
File Management Task	Copy, Move, Print, Delete and/or Rename files. Overwrite, rename and fail options.	✓	✓	✓
Purge Event Log Task	Deletes specified Event Log entries (Application, System, Security, ...)	✓		

LOGGING				
Feature	Description	Windows	Unix	Linux
Log File Task	The task function includes: search/replace, insert, append, replace, read, delete, find first and find all. The task can export the log file name, a full line or a line number. Depending on log file task result, appropriate automated action could be made.	√	√	√
Syslog Event	Monitoring and analysing network devices syslog messages, performing appropriate automated action.	√	√	√
SNMP Trap Event	Monitoring and analysing network devices SNMP traps, performing appropriate automated action using SNMP management.	√	√	√
SYSTEM				
Feature	Description	Windows	Unix	Linux
Run Program Task	Launches any application, script or executes any command line.	√	√	√
End Process Task	Stops a specified process.	√	√	√
Start/Stop Service/Daemon	Start, Pause, Stop or Restart any System Service/Daemon.	√	√	√
System Restart Task	Restarts a computer. Optional features include; message to users, time delay and force applications to quit.	√	√	√

SYSTEM				
Feature	Description	Windows	Unix	Linux
Save Event Log Task	Saves event log entries to a file.	√		
Database Query Task **	Queries a specified database and returns values which can be used to trigger the next task.	√	√	√
Write to Database Task **	Writes a new row into a database table.	√	√	√
WMI Task	Runs a WMI query and returns WMI output.	√		
LDAP Task	Runs a LDAP query and returns LDAP output.	√		
Service Started After Reboot Event	The Service is started within x minutes after a system reboot. Uses this event to automatically continue or start a job sequence after a system reboot.	√	√	√
Enable/Disable	Enabled or disabled local or remote objects.	√	√	√
Power Supply Management Task	Manages a devices power switching tasks (on/off). This task is usually performing as result on some event noticed.	√	√	√
System Management Tasks	Deletes temporary files (System, User, Internet temporary files, Cookies, Prefetch). Delete Recycle Bin. Defragment disk drives. Clean spywares from the system. Configure Automatic Updates Service.	√		

COMMUNICATION				
Feature	Description	Windows	Unix	Linux
Dial Call Task	Dials a telephone number by executing system utility or using third-party utility.	✓	✓	✓
Receive Call Event	Receives a call by auditing system event or using third-party utility.	✓	✓	✓
End Call Task	Hangs up a connection.	✓	✓	✓
Dial-up Networking Task	Connects or disconnects from any remote host using Dial-Up Networking Phonebook settings or third-party utility.	✓	✓	✓
Dial-up Networking Status	Returns information about a RAS connection.	✓	✓	✓
MONITORING				
Feature	Description	Windows	Unix	Linux
Service Event	Monitors the status during defined (regular) intervals for services that have <i>started</i> , <i>stopped</i> or <i>paused</i> on any Service.	✓	✓	✓
Event Log Event	Checks all Event Logs for warnings/errors. Filters all Event Logs for any particular Event ID, Event Source and Event Description.	✓		
Performance Event	Views the behaviour of local or remote performance objects, such as processors, memory, cache, threads, and processes allowing setting of error and warning threshold. Each of these objects has an associated set of counters that provide information about device usage, queue lengths, delays, and information used to measure throughput and internal congestion.	✓		

MONITORING				
Feature	Description	Windows	Unix	Linux
Process Event	Checks the availability of a local or remote Process.	√	√	√
Process Status	Returns information (number of instances, CPU time, memory, elapsed time, Process ID) of a local or remote Process.	√	√	√
Internet Application Event	Monitor, Web (HTTP), FTP, DNS, NNTP, SMTP and POP3 functionality.	√	√	√
Computer/IP Device Event	Checks the availability of a local or remote TCP/IP name or address.	√	√	√
Disk Space Event	Checks the availability of free disk space on a local or remote computer allowing setting of error and warning threshold. Check Disk IO thresholds.	√	√	√
Disk Space Status	Returns information on available space of a specified disk.	√	√	√
WMI Event	Queries and triggers object based on return values.	√		
LDAP Event	Queries LDAP and triggers object based on return values.	√		

MONITORING				
Feature	Description	Windows	Unix	Linux
Read Text Log Status	Reads a text log and returns information on any line.	✓	✓	✓
Backup Job Event*	Checks whether backup job was successful or not, performing appropriate automated action.	✓	✓	✓
Backup Job Status*	Returns backup job information.	✓	✓	✓
Motion Detection Event	Checks whether motion was detected or not, performing appropriate automated action.	✓	✓	✓
EMU Event	Checks whether Environmental Monitoring Unit (temperature, humidity, smoke,...) has reached its critical value or not, performing appropriate automated action.	✓	✓	✓
EMU Status	Returns Environmental Monitoring Unit (temperature, humidity, smoke,...) status information values.	✓	✓	✓
System Management	Checks for recycle bin taking space, antispyware tool scan result, Defragmentation of drive needed, Automatic Update Service setting	✓		
Security	Checks for users logged on system, login attempts, user account security, administration security events	✓	✓	✓
SAP	Checks for SAP jobs result and SYSLOG messages.	✓		

MONITORING				
Feature	Description	Windows	Unix	Linux
MSSQL	Checks for MSSQL jobs result and tablespace usage	√		
Oracle	Checks for Oracle tablespace usgae	√	√	√
Antivirus	Checks if antivirus software is installed and checks whether antivirus service is running. It provides methods for stopping and restarting the antivirus service. Provides action for updating the antivirus software on the deployed machine	√		
CoreMedia Smart Content	Checks for web application log in and log file messages	√		
Master / Slave	In your environment ther can be installed two or more b4 Controllers and configured to ack as Master-Slave servers. The Master b4 controller is like any other b4 controller, except that it allows the operators to login into it, and be able to access and manage all Slave b4 controllers that are connected to it.	√		

Remote Control				
Feature	Description	Windows	Unix	Linux
Remote access (VNC)	b4 remote control package derived from the popular VNC software. With b4 remote control, you can access the desktop of a remote machine directly from the b4 management console and control it with your local mouse and keyboard, just like you would do it sitting in the front of that computer.	✓	✓	✓
Remote access (RDC)	b4 remote control is also possible by using Remote Desktop Connection tunnelled over b4 (encrypted as well)	✓		

Provisoning				
Feature	Description	Windows	Unix	Linux
Content Provisioning	End user is able to drop content in a central location, and schedule deployment to multiple locations within his server Pod without the need for manual direction.	✓	✓	✓
Software Provisioning	Provides the possibility to deploy the Software installation package and install it on one or more AmdoSoft/b4 Agent provided devices from one central management console.	✓	✓	✓
OS Provisioning	Encompasses the timeframe from when a machine with a blank disk in a network managed by b4 Controller is booted until the moment the Resource appears on the Management Console.	✓		

NOTIFICATION				
Feature	Description	Windows	Unix	Linux
E-mail Task	Sends Internet (SMTP) e-mail to one or more recipients, with attachment and dynamic data options by using system or third-party utilities.	√	√	√
Popup Message Task	Sends on screen Pop-ups to a Windows user or computer.	√		
Pager Task	Sends an SMS, numeric or alphanumeric pager message (modem required) by using system or third-party utility.	√	√	√
SNMP Trap Task	Sends an SNMP Trap by using system or third-party utility.	√	√	√
Web Page Task	Writes a HTML web page.	√	√	√
Alerts Window Task	Sends a message to an Alert Window.	√		
E-MAIL AUTOMATION				
Feature	Description	Windows	Unix	Linux
Read E-mail Task	Reads e-mail messages from a specified POP3 account. Options to save message, attachments, connection info or leave on mail server.	√	√	√
Filter E-mail Task	Filter messages reads by the Read E-mail Task.	√	√	√
Process E-mail Task	Takes action (reply, forward, save and deletes) on e-mail that has been read by the Read E-mail Task.	√	√	√

UTILITIES				
Feature	Description	Windows	Unix	Linux
Custom Start Event	Starts jobs from remote locations automatically or manually.	√	√	√
Compress Task	The Zip task gives you all the basic functionality of PKZip or WinZip within b4. Compress, decompress or test a Zip archive.	√	√	√
Trigger Object Task	Triggers objects on a local or remote computer.	√	√	√
Performance Monitor Counter Event	Analyses the performance counters values reached allowing setting of error and warning threshold, performing appropriate automated action.	√		
Performance Monitor Counter Status	Returns the value of a particular performance counter.	√		
Compare Task	A logical operator that can be used to compare two strings.	√	√	√
Import Objects Task **	Imports objects using XML format	√	√	√
Export Objects Task **	Exports objects using XML format	√	√	√

BUSINESS LOGIC				
Feature	Description	Windows	Unix	Linux
Scalability	b4 function which provides almost unlimited possibilities of adapting to run-time environment Business Logic, providing functionalities of monitoring, notification and automation.	√	√	√
Shortcut	Used to link jobs that may be associated or related on a local or remote computer.	√	√	√
And Task	A Boolean operator creates AND conditions between an origin and destination task.	√	√	√
INVENTORY				
Feature	Description	Windows	Unix	Linux
Alert upon changes	Ability to create predefined e-mail and/or SMS notification alerts upon hardware and software changes	√		
Detect changes	Automatically detects hardware changes and software installations and un-installations	√		
Report	Report is showing New and Missing hardware and software. Complete hardware inventory report covering computer, CPU, hard-disk, peripherals, ports and NIC; all installed software packages report.	√		
* This functionality has been implemented for SEPsesam backup software ** AddON Module				

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