





Assignment

An Assignment is the term for the collection of components that comprise:

- 👖 Submission details of when to execute,
- Second Check List of what to check for,
- Action List to be processed and executed when the Check List is passed.

Assignment - Timing

The When to Run and How to Run details control:

- What time the Assignment will start,
- The interval between executions,
- When the Assignment will end.

Assignment - How to Run

Assignments are defined to execute multiple times (cycles) and these can be:

• • At regular timed intervals,

• At Pre-set specific times that are not regular timed intervals.



Assignment -Start and End

This is the time the Assignment will be submitted and start the first execution of Check List cycles.

There are 3 ways to define how an Assignment will end:

- End time the Assignment will end executions when this time is reached,
- Stop Counter the Assignment will end after this cycle number is processed,
- End on Success the Assignment will end after the number of concurrent successful completion of the Check Lists is reached.

Check List

The Check List is a sequence of commands or command lines that are executed and will return a status of: • True,

	Seq	Cond,	Nequired	Command to Execute
1	10	15	False	RG08JERIST 08J(RVLGPL/2PE00) 08JTYPE("FILE)
2	20	OR	False	RGFILACTR FILE(RVLGPL/ZIPEOD) CONDITION("GT) VALUE(75)
3	30	OR	False	RGLCKSTS OBJ(RVLGPL/ZIPEOD) OBJTYPE("FILE) LOCKSTATE("EXCL)
4 -		30		•

• False,

value.

Check List sequences can be joined by standard Boolean logic operands of IF, AND, OR.

At the end of the execution of the Check List it will return an overall:

• Pass,

• Fail,

based upon the status of each Check List sequence.

As a Check List processes command or command lines new ones can be added at any time.

REV GRD ENT 10.2 Data Sheet.

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Check List - iSeries commands

Examples of the iSeries commands are as follows:

- RGCFG Check Configuration Status,
- RGJOBSTS Check Job Status,
- RGJOBQJOBS Check Jobs on Job Queue,

Check List - LINUX, UNIX and WINDOWS command lines

Examples of the LINUX, UNIX and WINDOWS command lines are as follows:

- RGCHKCPU Check CPU Usage,
- RGCHKMEM Check Memory Usage,
- RGCHKOBJ Check Object exists,RGCHKPORT Check Port is Listening,

- RGOBJEXIST Check Object Exists,
- RGSBSACT Check Subsystem Active,
- RGSTG Check Storage,
- RGMSGQMSG Check Message Queue depth, RGTMPADD Check Temporary Addresses.
 - RGCHKPROC Check Process is Running,
 - RGCHKSTG Check Volume Storage,
 - RGCHKURL Check Website or Page,
 - RGSVCACT Check Service is Active,

Actions

The Actions is a sequence of commands or command lines to be processed and executed when the Check List is Passed.

Action Cycle

Actions can be defined to be executed:

- For all cycles of an Assignment,
- · Specific cycle number in the Assignment,
- Cycle number range in the Assignment.

Calendars

In REV GUARDIAN all Calendars are user defined and are:

• 12 Gregorian (standard 12 months).

Calendars are populated by user defined Day Codes - such as DAILY, WEKLY etc.

Assignments can then be defined to be available to run based upon the Frequency of the Day Code in the Calendar - such as Every, Last, First occurrence of the Day Code DAILY in the Calendar WORK_ DAYS.

You use calendars in a *LIST - e.g.

• Every *WORK in the Calendar EXAMPLE,

 Not on Every HOLDY in the Calendar HOLIDY USA.

	Seq	Cond.	CP	Туре	CP	Selection Data	
1	10	F	EQ			EV WORK EXAMPLE	
2	20	AND	NE			EV HOLDY HOLDY_USA	
					11		





Audit

The Audit function in REV GUARDIAN logs every change that is made to a Assignment or any of its components.

Using the Audit facility:

- Updates can be undone,
- Deleted components can be undeleted,
- Deleted Assignment can be undeleted.

All Undo of updates and all undeletes (of components or complete Assignments are also logged in the Audit facility.

An Undo can also be undo - so in effect an Undo of an undo - and this is also logged.

Any time that a Assignment or any of the components are updated the Audit facility logs the:

- Before update image,
- After update image,

of the data and this allows for the rollback or undo to be performed (which is also logged).

	00000	0.000	User to Run As	ViewList	Description	*
Any updated data is very easy	1	0	*GUARDIAN	NONE		6
to recognize as it is displayed in	2	0	GUARDIAN	WU.		-
Blue.						

All other data is still displayed in Black.

Environments

T All Environments are user defined and every Assignment must be registered to an Environment.

Using the shipped Environments you can

immediately have:

• *BASE, • *DEVELOP,

and you can promote your Assignments through the Environments.

• *Q&A,

202	- 1	Environment	Active	Status	Security	Description
1	25	"BASE	2	•		Self Test Environment.
2	۲	*DEVELOP	2	0		Development.
3	٠	1Q8A	12	0		Quality & Assurance.

Only Environments that are started can execute the available Assignments.

Environments can be security defined so you can control the users who can:

- See the Assignments,
- Update the Assignments,
- · Add new Assignments to the Environment,
- Force Run a Assignment in the Environment.

REV GRD ENT 10.2 Data Sheet.





Job Day Codes

Each Assignment, in REV GUARDIAN, can be defined to have different Job Day Codes (JDC) or 'flavors' of the same Assignment.

Each JDC can be seen as a different flavor of the same Assignment e.g. Chocolate, Strawberry etc., and can be up to 10 characters in length such as DAILY, WEEKLY, MONTHLY etc.,

A simple example is as follows:

- Job Day Code *BASE runs on Monday through Thursday by Time with components of:
- Check List,
- Actions.
- Job Day Code *WEEKEND runs on Saturday and Sunday.

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	AMEMLI JDC	N Start Time	MEMLIN End Time	When to Run	De CL	ined ACT	Default	Inh CL-D	enited ACT-D	Description
1	AMEMLI JDC 'BASE	N Start Time 9:00	MEMLIN End Timo	When to Run	De CL	ined ACT	Defoult	inh CL-D	erited ACT-D	Description Test AMWAY connection status.

This Job Day Code will also 'inherit' the components defined in the *BASE JDC.

This is all still only 1 Assignment with the same Job Name, Environment etc., but has varying Job Day Codes or flavors.





Assignment Sheet

- The Assignment Sheet has all the details of the:
- Assignment,
- Check List,
- Actions,

in an easy to understand .pdf format and can be used to:

- Build document archives for Assignments,
- Give Audit staff Assignment details in an:
 - Easy to understand,
 - Transportable,

format,

• Send to users to sign off on:

- A new Assignment,
- Updates to the Assignment.

The Assignment Sheet can be executed from the REV GUARDIAN Definitions .net interface.

Run Sheet

The Run Sheet that has all the Assignment execution details in an easy to understand .pdf format and can be used to:

- Build execution archives for Assignments,
- Give Audit staff Assignment execution details in an:
 - Easy to understand,
 - Transportable,

format,

• Send to users to show Assignment execution details.

The Run Sheet can be executed on any platform and can be executed:

• From the REV GUARDIAN Operations .net interface,

• By command line in a Job Script in REV SCHEDULER on a Windows server using the RGRUNSHEET command line.





Operations Panels

When Assignments are defined and executing you need to have a mechanism to control and manage the entire 'Roster' of Assignments and this is performed by the Operations Panels.

This will show all the Assignments that are due to run on a date or the date range.

• Hold,

As jobs are running they will:

• Change colors, • Play Sounds,

to reflect the current status of the Assignments.

From the Operations Panel you can:

• Force Run, Assignments. • Investigate and Manage,

The Operations Panel will be the panel most used by the operations personnel within your corporation to control the Assignments under the control of REV GUARDIAN.

Host Operations

An Host Operations Panel to allow you to control and manage Assignments on a Server.

Enterprise Operations

An Enterprise Operations Panel to allow you to control and manage Assignments on all networked Servers.

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Security

The security function in REV GUARDIAN can be implemented in up to 2 levels: • Module level. • Environment level.

Module Level

- Losing Module Security you can define Users who are authorized to:
- Command or Menu option,
- Selection options from panels.
- All security is defined by:
- User Profile,
- *PUBLIC,
- User defined Authorization groups..

Environment Level

By setting the security at Environment level any:

• Existing Assignments, • New Assignments,

for the Environment are automatically secured.

Setting the security at Environment level allows for the security to be:

• Controlled, • Managed,

in one central location.

LDAP Interface Security

REV GUARDIAN now has full support for LDAP (Lightweight Directory Access Protocol) which is an Open Systems protocol to allow programs to look up information from a server.

In this way LDAP can be a central security repository that will contain the security definitions for some of all of the servers where REV GUARDIAN is operational.

The LDAP Interface can support security checking for both of the:

• 5250 Interface or terminal sessions,

• Windows Interface.

The LDAP security also supports keyword values for:

- *PUBLIC_SYSTEMS these are Systems other than the Systems specifically defined,
- *PUBLIC_USERS these are Users other than the Users specifically defined.

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Variables

0 The variables that can be used in REV GUARDIAN fall into 2 areas:

- Assignment variables,
- System variables.

 609 When variables are used there is also a Preview that allows you to view the:

• Defined value:

SNDMSG MSG('Message for cycle number #ASGCYCLNO from Assignment #ASGASGNAM running on #SYSNAME at #SYSTIME on #SYSDATE executing in #SYSJOB28.') TOUSR(QSYSOPR),

• Execution value:

SNDMSG MSG('Message for cycle number 0000 from Assignment QBASEJOBQ1 running on REVSOFT_LAB_01 at 153837 on 072612 executing in 802752/QUSER/QZDASOINIT.') TOUSR(QSYSOPR).

The variables can be used in the Actions.

All variables (Assignment and System) can all be identified by the # character.

Some of the System shipped variables are as follows:

 #ASGENDD 	- End Date,	• #ASGASGNAM	- Assignment Name,
 #ASGENDT 	- End Time,	 #ASGJDC 	- Job Day Code,
 #ASGSTRD 	- Start Date	 #ASGRUNENV 	- Environment Name,
 #ASGSTRT 	- Start Time,	 #ASGCYCLNO 	- Cycle Number,
 #ASGSBMD 	- Submitted Date,	 #ASGINTID 	- Internal ID,
 #ASGSBMT 	- Submitted Time,	 #ASGRESET 	- Reset After,
 #ASGFORCED 	- Forced to Run,	 #ASGSTOP 	- Stop After,
 #ASGCMP 	- Completion Code,	 #ASGENDAFT 	- End After,
 #ASGCYCLES 	 No. Cycles to Execute, 	 #ASGMET 	- Run Method.
 #SYSDATE 	 6 long date in System For 	rmat,	
 #SYSDOW3 	- Day of week - MON, TUE	etc.,	
 #SYSJOBNAM 	- i5OS Job Name,	• #DOMAIN	- Domain Name,
 #SYSUSRNAM 	- i5OS User Name,	• #USER	- User Account,
• #SYSNB	- i5OS Job Number,		
 #SYSJOB28 	- Job/User/Number,		
• #SYSMTH3	- Short month name - JAN,	FEB etc.,	
 #SYSTEM 	- System Name,		
• #SYSNAME - Alias	s Name.		





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Job logs (LINUX, UNIX & WINDOWS only)

All Assignments executed create a job log and this shows complete details of the execution.

The header of the job log contains:

- Version and Build of the Engine,
- · Details of the:
 - System name,
 - Alias name,
 - Platform,
 - Type,
 - DB location,
 - Process Id,
- Command Line Name,

• Run Id.

Job logs can be exported as:

- .pdf,
- •.txt,

files.

Mon 30 Jul 12 08:00:03
Mon 30-Jul-12 08:00:03
Mon 30-Jul-12 08:00:03 Log for RevGRD_EXC
Mon 30-Jul-12 08:00:03
Mon 30-Jul-12 08:00:03 Version = ENT-10.2.1242
Mon 30-Jul-12 08:00:03 REVSOFT =
Mon 30-Jul-12 08:00:03 User – Administrator
Mon 30-Jul-12 08:00:03 System = OCEANIA
Mon 30-Jul-12 08:00:03 Alias = REVSOFT_QANDA_OCEANIA
Mon 30-Jul-12 08:00:03 Platform = WINDOWS
Mon 30-Jul-12 08:00:03 Type = WINDOWS
Mon 30-Jul-12 08:00:03 DSN = Rev-REVSOFT_QANDA_OCEANIA.GRD
Mon 30-Jul-12 08:00:03 DB Host = (refer the DSN)
Mon 30-Jul-12 08:00:03 PID = 65000
Mon 30-Jul-12 08:00:03
Mon 30-Jul-12 08:00:03
Mon 30-Jul-12 08:00:03
Mon 30-Jul-12 08:00:03 Job Name – CHECK_PROC_SQLSERVR
Mon 30-Jul-12 08:00:03 Job Day Code = "BASE
Mon 30-Jul-12 08:00:03 Internal ID = 473000100
Mon 30-Jul-12 08:00:03 Run ID - 201221200000001
Mon 30-Jul-12 08:00:03
Mon 30-Jul-12 08:00:07 Sending push data (IP) for job 201221200000001 to IT03
Mon 30-Jul-12 08:00:07 Focal Points RULE = *ALL
Mon 30-Jul-12 08:00:07 Sending assignment history for 201221200000001 to View
Mon 30-Jul-12 08:00:07 Sending GRD/ASS_HIST/ADD to REVSOFT_LAB_01 via View
Mon 30-Jul-12 08:00:09 Assignment started, PID=65000
Mon 30-Jul-12 08:00:09 Processing, job status is Start
Mon 30-Jul-12 08:00:09 Saving multi run job times
Mon 30-Jul-12 08:00:09 Execution 1 (seq=1) run time is 800
Mon 30-Jul-12 08:00:09 Execution 2 (seq=2) run time is 830
Mon 30-Jul-12 08:00:09 Execution 3 (seq=3) run time is 900
Mon 30-Jul-12 08:00:09 Execution 4 (seq=4) run time is 930
Mon 30-Jul-12 08:00:09 Execution 5 (seq=5) run time is 1000
Mon 30-Jul-12 08:00:09 Execution 6 (seq=6) run time is 1030
Mon 30-Jul-12 08:00:09 Execution 7 (seq=7) run time is 1100
Mon 30-Jul-12 08:00:09 Execution 8 (seq=8) run time is 1130
Mon 30-Jul-12 08:00:09 Execution 9 (seq=9) run time is 1200
Mon 30-Jul-12 08:00:09 Execution 10 (seq=10) run time is 12:30
Mon 30-Jul-12 08:00:09 Execution 11 (seq=11) run time is 1300
Mon 30-Jul-12 08:00:09 Execution 12 (seq=12) run time is 1330
Mon 30-Jul-12 08:00:09 Execution 13 (sec=13) run time is 1400