

1 Remote Services 2.0 Release Notes Late Breaking Caveats
2
3 Remote Services 2.0 - Release Notes
4 =====
5 2014-2018 , Hewlett Packard Enterprise Development LP
6
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32 1.0 Introduction
33 -----
34 The Remote Services proactive solution provides a way for HPE to monitor and
35 pro-actively support customer
36 systems. This is a Cloud solution.
37
38 The system data, which is provided by the agent software running directly on the
39 system, is stored on the
40 Cloud. In addition to this, upon customer approval, RS may also provide access for
41 HPE Support personnel
42 to a customer system.
43
44 Remote Services functionality on MC990X systems is available as of August 1, 2017
45
46 2.0 System Requirements
47 -----
48 Requires HPE System Foundation Software (SFS) 2.16 or later.
49
50 sgirs software consists of bash scripts plus the Agent software. Config options and
51 global variables are
52 within the file /etc/sysconfig/sgirs. The directory /etc/sysconfig must have the x
53 bit set on its
54 permissions and root:root ownership: drwxr-xr-x root root /etc/sysconfig
55
56 sgirs installs log filters and requires a service restart of the syslog facility.
57
58 sgirs has to obtain a valid system serial number; otherwise, the sgirs service will
59 not start and will
60 display an error as such. If this happens, contact your service provider for
61 assistance in resetting your
62 system serial number.
63
64 sgirs uses the #includedir syntax inside of the /etc/sudoers file, which was
65 supported starting at version
66 sudo-1.7.2. On a system running anything prior, copy the contents of sgirs and
67 sgiremote files from
68 /etc/sudoers.d/ into /etc/sudoers file after RPM install.
69
70 This applies to all sgirs RPMs, except for the sgirs-icelead RPM.

63 RS depends on these specific SFS components:
64 - sgirs-universal RPM depend on sgi-support-tools and memlog
65 - sgirs-iceadmin RPM depend on sgi-admin-node-release RPM
66 - sgirs-icelead RPM depends on sgi-lead-node-release RPM
67
68
69 Some users may find they are able to install RS on systems without having met the
70 dependency of SFS 2.16
71 or later.
72
73 RS has not been tested in environments other than systems that meet described
74 dependencies. Running RS
75 on systems not meeting described dependencies may encounter unanticipated issues
76 and/or encounter issues
77 in future RS releases.
78
79 Support for usage of RS is provided when issues can be reproduced on systems fully
80 meeting described dependencies.

78 3.0 Features

79 -----
80 The monitoring RPMs gather and send support data to a secured Cloud Platform from
81 Axeda, sgi.axeda.com.
82 The RPMs are described later.
83
84 If installed, the optional sgirs-sgiremote RPM creates sgiremote user used by HPE
85 Support personnel to
86 perform enhanced system support activities. This feature is described later.
87

86 4.0 Monitoring Agents

87 -----
88 The RS RPMs (sgirs-universal, sgirs-iceadmin) add the following features to the
89 host OS:
90
91 4.1 Agent details
92 -----
93 4.1.1. Creates a user (sgirs) which
94 a. Is locked
95 b. Has a real shell
96 c. Has a home directory of /opt/sgi/Axeda/sgirs
97 d. Daemon runs as this user
98 e. Has group write privilege to the daemon home directory
99 (/opt/sgi/Axeda/UniversalGateway or
100 /opt/sgi/Axeda/ICEAdminGateway)
101 f. If SELinux is in enforcing mode then the context for /opt/sgi/Axeda is set to
102 user_home_dir_t
103
104 4.1.2. Adds sudo access for the sgirs user for the local system only via
105 /etc/sudoers.d/sgirs.
106 The directory /etc/sudoers.d/ is created if it does not exist.
107 If the variable Defaults requiretty is set in /etc/sudoers it is commented out
108 to allow sgirs to run
109 without a shell as the launcher.
110
111 4.1.3. Reference /etc/sysconfig/sgirs for description of configuration variables.
112
113 4.1.4. Reference /etc/syslog-ng/syslog-ng.conf (syslog-ng) or
114 /etc/rsyslog.d/sgirs.conf (rsyslog) for
115 details of log filters that are added.
116
117 4.1.5. RS is enabled by default.
118
119 4.1.6. RPM removal (rpm -e)
120 On removal of the RPM the above changes are backed out.
121 There will also be *.rpmsave files created in directories /opt/sgi/Axeda/sgi_conf/
and /etc/sudoers.d/.

122
123 Once the RPM is re-installed, the appropriate *.rpmsave file can be restored by
124 copying it over the
125 newly install file - if that is desired.
126
127 4.1.7. What is monitored is described below.

122	Script	Function
123	BMC_Env	Monitor the BMC using ipmi sel elist
124	Crash_Dump	Monitor for crash dumps in various directories
125	IB	Monitor servers using ibquerryerrors (configurable in /etc/sysconfig/sgirs)
126	IRU_ENV	Monitor servers using cmc ipmi sdr
127	Log_Files	Monitor /var/log/sgirs/sgirs-messages.log setup from filters set in /etc/syslog-ng/syslog-ng.conf or /etc/rsyslog.d/sgirs.conf
128		uvdmp on SMN, disk space via df
129		
130	memlogd	Monitor /var/log/sgirs/sgirs-memlog.log from filters set in /etc/syslogng/syslog-ng.conf
131		or /etc/rsyslog.d/sgirs.conf specific to memlogd-related messages
132	NUMA_Err	Monitor NUMALink using linkstat-UV
133	Pcie	Monitor changes to PCIe devices and status, using several lspci commands
134	RAID	Monitor RAID device, hdd/ssd using storcli64, MegaCli64, lsiutil, smartctl, lsscsi
135	Sw_Env	Changes in cat /etc/*release
136	Topology	Look for relevant topology -v changes
137	Uptime	Collect system uptime information
138	SGI_Config	Same result as SGI_Startup in the table below
139	External_Storage	smeecli, SMcli, show sub fault and show sub sum,
140		smeecli/SMcli show storagearray healthstatus and show storagearray profile

141
142 4.1.8 Scripts can be run to collect server information to push to the Cloud. They are described below.

143	Script	Function
144	Gather_Support_Data	Run a combination of system_info_gather, generate_support_info.sh, tempo-info-gather, smn_info_gather, uvdmp, sosreport, and supportconfig
145		
146	Gather_Logs	Gather boot-log, messages, dracut_log, uvconfig, het, memlog, sar, hb_report,
147		crm_report, select /var/log directories and files, gateway directory*.txt files
148		and xGate.log, and the sgirs monitor_work directory and push them to the Cloud,
149		react, react.conf, cpuset, lsmod, modules, cmdline, capability.conf, 99-sgireact.rules, /etc/group
150		
151	Get_Repotools_Info	Gathers output of yum repolist or zypper repos
152	Pcie_Get	Run a variety of lspci commands
153	RAID_Get	RAID device using storcli64, MegaCli64, lsiutil
154	External_Storage_Get	smeecli, SMcli, show enclosure 0 all and show sub fault, smeecli/SMcli show storagearray healthstatus and show storagearray profile
155		
156	Remote_Access	Invoke rpm -q sgirs-sgiremote and indicates in the Remote_Access data item if the remote access RPM is installed.
157		
158	HET_monitor	monitor and report on Hardware Environment Tracking actions described in /etc/het.action.d/het_sgirs
159		
160	SGI_Startup	Run when Gateway is started to populate all data items in the Cloud
161	COP_Get	Run commands to gather coprocessor (GPU and MIC) information, nvidia-bug-report.sh, nvidia-smi, micinfo, miccheck, look at /proc/driver/nvidia/gpus/sys/class/pci_bus/* /sys/class/mic
162		
163		
164	CXFS_Dump	collect cxfs_dump -fast out. Configurable in /etc/sysconfig/sgirs.
165	CXFS_Gather	collect CXFS gather type information cxfsdump, clconf_info, cxfs_admin, cxfs-config. Configurable in /etc/sysconfig/sgirs.
166		
167	DMF_Gather	collect DMF gather type information dmusage, dmcapacity, dmcollect. Configurable in /etc/sysconfig/sgirs.
168		
169	Restart_Service	restart the sgirs service from the Axeda Cloud
170	Gather_Memlogd	collect memlogd -c and /proc/meminfo output
171		

172	4.1.9. Frequency of monitoring	
173	Description	Frequency of Collection
174	SGI Startup	Once at daemon start
175	BMC ENV	5 minutes
176	IRU	5 minutes
177	HET	5 minutes

```

178 NUMA Error          30 minutes
179 InfiniBand         1 hour
180 RAID                2 hours
181 External Storage   4 hours
182 memlogd             2 hours
183 PCIe                2 hours
184 Uptime              2 hours
185 Topology            24 hours
186 Crash Dump          24 hours
187 Log Files           12 hours
188 SGI Config          24 hours
189 Sw Env              24 hours
190 Remote_Access      24 hours
191
192 4.1.10. Data items are collected when daemon first starts and are only updated when
they change.
193 Time stamp reflects when the data item was first gathered and is only updated if a
change occurs.
194 Data Item          Description
195 Cool_tec           How the device is cooled; set to water or air as part of the
RS install
196                   procedure
197 FW_Inv_Bios        System or motherboard BIOS information;
/proc/sgi_uv/bios_version, dmidecode
198 FW_Inv_BMC         BMC firmware version; ipmitool mc info, bmc version
199 FW_Inv_CMC         CMC firmware version; cmc version
200 FW_Inv_Other       IB firmware version; parsing /sys/class/infiniband/*
201 FW_Inv_RAID        RAID firmware version; storcli64, MegaCli64, lsiutil
202 Hostname           System hostname; hostname --long, /proc/sys/kernel/hostname
203 HW_Inv             System type, memory, and CPU information; topology, hwinfo,
dmidecode
204 Kern_Ver           Operating system version; uname -a
205 RAID_Storage       RAID storage version; smeecli, SMcli, show sub sum, show
storagearray profile
206 External storage information: Chassis SN, Feature pack submodel ID, Current NVSRAM
Verion Current
207                   Package Version
208 ICE_Srv            The ICE admin serial number
209 Remote_Access      Enables remote access via sgiremote user and ssh keys; rpm
-q sgirs-sgiremote.
210
211                   An N value indicates that the sgirs-sgiremote RPM is not
212                   installed on a
213                   customer system, and a Y value indicates that the sgirs-sgiremote RPM is
214                   installed.
215 SMN                Serial number of managed UVs for an SMN; cmcfind
216 SN                 System serial number; dmidecode,
/proc/sgi_uv/system_serial_number, dmidecode
217 SW_ver             High-level system software versions; cat /etc/SUSE-release,
218                   cat /etc/redhat-release, ls /etc/sgi-*-release, sgirs.sh -V
219 Uptime             System uptime; reading of /proc/uptime
220 Node_Cnt           Compute node count from Ice leader; wc -l
221                   /etc/dsh/group/compute or
222                   /etc/dsh/group/ice-compute depending on HPE SGI Management Center version
223 HA                 If the node has a high availability feature; crm_mon -l
224
225 4.2 sgirs-iceadmin RPM Additional Requirements
226 -----
227 The sgirs-icelead RPM must be installed on all rack leaders.
228
229 4.3 Optional RS Remote User
230 -----
231 The sgiremote RPM requires one of the monitoring RPMs to be in place before the
sgiremote RPM can be
232 enabled.
233
234 The sgiremote RPM adds the following features:
235
236 Creates sgiremote user with a home directory of /opt/sgi/Axeda/sgiremote
237 Installs a .ssh directory in the homedir, which contains a authorized_keys file:
/opt/sgi/Axeda/sgiremote/.ssh/authorized_keys
238
239 Note: Customer must install or authorize installation of the optional software RPM
package to create

```

238 the sgiremote user. By installing or authorizing installation of the sgiremote user
with its access
239 credentials and password protection, the Customer permits HPE Support personnel to
access the Customer
240 system through the secure shell protocol for efficient and effective Customer support.
241
242 When the sgiremote RPM is removed, the sgirs user will still exist in the system's
passwd file. The
243 sgirs user's home directory is not removed. The sgiremote user is removed and
remote access by HPE
244 is no longer possible via ssh key for sgiremote user.
245
246 The Cloud will always allow one to initiate a remote connection from the Cloud to
any connected Agent.
247 The Cloud, base sgirs-universal or sgirs-iceadmin RPMs contain the software to allow
remote connections.

248
249 Removing the sgiremote RPM disables only sgiremote user login. If one uses another
valid user/password,
250 remote access is still possible as the sgirs-universal, sgirs-iceadmin RPMs contain
the software to
251 allow such connection. To completely dis-allow remote logins prior to the starting
or restarting of
252 the service, set the sgirs sysconfig file entry RSP_REMOTE_ACCESS appropriately.
253

254 5.0 Installation

255 -----

256 5.1 Gathering Installation Materials and Information

257 -----

259 Confirm system requirements are met. Reference System Requirements section.
260 Obtain Customer Contact name for entry when prompted, to be used for automatic case
opening.
261 NOTE: Automatic case opening will not work if customer contact name is not available.
262 Obtain RPMs from HPE System Foundation Software repository.
263

264 Recommended RPMs

- 265 - For HPE SGI Management Suite Cluster admin nodes:
- 266 sgirs-iceadmin and
- 267 sgirs-icelead (for ICE lead installs only)
- 268 and, optionally, sgirs-sgiremote
- 269
- 270 - For MC990 X, UV, SMN, Compute nodes in HPE SGI Management Center cluster, Rackable
Standard Depth
systems:
- 271 sgirs-universal
- 272 and, optionally, sgirs-sgiremote
- 273
- 274

275 The software requires access to sgi.axeda.com via port 443/tcp. Refer to Attachment
A at the end
276 of this document for information on how to setup a proxy if needed.
277

278 For remote access the Axeda Global Access servers (Cloud) require the same port
443/tcp access.

279 52.56.106.12	ghuk2.axeda.com	GA Server - UK
280 52.56.113.192	ghuk3.axeda.com	GA Server - UK
281 209.202.157.179	ghsom1.axeda.com	GA Server - Boston, MA USA
282 198.66.245.39	ghsjl.axeda.com	GA Server - San Jose, CA USA
283 52.192.83.87	ghjap2.axeda.com	GA Server - Japan
284 122.202.65.179	gas-aus.axeda.com	GA Server - Australia

285

286 5.2 Installing and starting a UniversalGateway on MC990 X, UV, SMN, ICE-Service, Rackable Standard Depth

287 -----
288 -----

289 Example of MC990 X or UV install to show the added step of configuration for CMC.txt
as noted below:

```

290 # rpm -i sgirs-universal-2.0-sgi716r2.rhel6.x86_64.rpm
291 Shutting down syslog services                               done
292 Starting syslog services                                   done
293 # service sgirs start
294 sgirs: ERROR. /opt/sgi/Axeda/sgi_conf//Cooling_Technique.txt does not have the right
setting (2).
```

```

295 Please edit /opt/sgi/Axeda/sgi_conf//Cooling_Technique.txt and uncomment the method
    for cooling
296 (Air or Water).
297 CMC is not reachable. Please verify settings for CMC in
    /opt/sgi/Axeda/sgi_conf//CMC.txt
298 Starting sgirsd done
299 For all systems sgirs wants to know how the installation is cooled.
300
301 For RS to monitor the environmental of an MC990 X or UV system, it needs to be able
    to ssh
302 to the principal CMC/RMC. The file /opt/sgi/Axeda/sgi_conf/CMC.txt provides on line
    1 the host to use
303 (CMC/RMC name or IP).
304
305 The sgirs user requires read access to the file. If there is an SMN it can be used
    instead of CMC/RMC.
306 To do this change the variable RSP_AUTH_KEY in /etc/sysconfig/sgirs to the SMN root
    ssh key.
307
308 This is an optional feature and sgirs will function without it.
309
310 If you are using the UniversalGateway
311 Check for sgirs daemon # ps -e | fgrep xGate
312 17605 pts/3 00:00:00 xGate
313
314 cat /opt/sgi/Axeda/UniversalGateway/xGate.log and look for the string "registered":
315 INFO xgEnterpriseProxy: Server is available: https://sgi.axeda.com/eMessage
316 INFO xgEnterpriseProxy: Device registered with server
    https://sgi.axeda.com/eMessage: model: UV,
317 serial number: UV-00000182
318
319 Above indicates the Axeda platform connected is sgi.axeda.com, and the MC990 X or
    UV's serial number.
320
321 xGate is not configured to dump a core file if an issue should occur that would
    otherwise produce a
322 core. See ulimit comments and setting in the sgirs init script for more details.
323
324 5.3 Installing and starting an ICEAdminGateway on ICE-Admin
325 -----
326 # rpm -i sgirs-iceadmin-2.0-sgi716r2.rhel6.x86_64.rpm
327 Shutting down syslog services done
328 Starting syslog services done
329 # service sgirs status
330 Checking for service
331 sgirsd running
332
333 If you are using the ICEAdminGateway
334 cat /opt/sgi/Axeda/ICEAdminGateway/xGate.log and look for
335 INFO xgEnterpriseProxy: Server is available: https://sgi.axeda.com/eMessage
336 INFO xgEnterpriseProxy: Device registered with server
    https://sgi.axeda.com/eMessage: model: ICE-Admin,
337 serial number: Z1000013
338 Above indicates the Axeda platform connected is sgi.axeda.com, and the ICE-Admin
    model's serial number.
339
340 After starting the service on the admin node, it's possible that leaders may not be
    online or booted to
341 a running operating system. In order to avoid any issues of sgirs startup on the
    admin, sgirs leader
342 discovery is done 30 minutes after admin startup then once every 24 hours. This
    results of the
343 updating of the file /opt/sgi/Axeda/ICEAdminGateway/ManagedDevices.xml.
344
345 5.4 Installing on ICE-Leaders
346 # rpm -i sgirs-icelead-2.0-sgi716r2.rhel6.x86_64.rpm
347 Shutting down syslog services done
348 Starting syslog services done
349
350 5.5 Installing sgiremote RPM
351 # rpm -i sgirs-sgiremote-2.0-sgi716r2.rhel6.x86_64.rpm
352
353 5.6 Enter Customer Contact

```

354
355 Run /opt/sgi/Axeda/scripts/RS_Registration.py after installation in order to enter
customer contact
356 information. Note that automatic case opening will not be possible if customer
contact information is
357 not available.
358
359 The registration script can be rerun at any time the customer contact information
needs to be updated.
360
361 Note - /opt/sgi/Axeda/sgi_conf/RS_Registration.xml should match for all systems
within the same
362 management domain and at the same site. It can be copied between systems rather
than run the
363 configuration script.
364
365 Additionally: If a system with HPE RS installed is reinstalled please restore
/opt/sgi/Axeda/monitor_work
366 and /opt/sgi/Axeda/sgi_conf from the prior installation. This will preserve the
contact details and the
367 state of the system with respect to prior events found by RS.
368
369 5.7 Configuration of optional features in RS.
370 /etc/sysconfig/sgirs has configuration variables for sgirs features. See the file
for all variables and
371 options. See sgirs man page for additional details.
372
373 6.0 Troubleshooting install problems
374 -----
375
376 Confirm system requirements are met. Reference System Requirements section.
377
378 Mentioned files below reside in the Gateway home directory which is either:
379
380 /opt/sgi/Axeda/UniversalGateway/ or /opt/sgi/Axeda/ICEAdminGateway or
381 /opt/sgi/Axeda/ICElead or /opt/sgi/Axeda/sgiremote
382
383 If you are using the UniversalGateway or ICEAdminGateway look for the ERROR string
in xGate.log file.
384 Confirm sgi.axeda.com resolves for the Axeda platform server.
385 Confirm the correct Axeda platform server is listed in xgEnterpriseProxy.xml
386 Confirm system date and time are correct
387 Confirm Axeda Global Access servers are added to the Firewall rules.
388
389 7.0 Bugfixes
390 -----
391 Logical flaw in file comparison function.
392 monitor_processing
393 De-ICE naming in sgirs for SMC based clusters
394 try and deal with duplicate asset alarms at Axeda cloud
395 sgirs init script does not properly detect missing OP server, burns cpu cycles
396 RS not reading SSN correctly via dmidecode
397 init script shows unary operator expected message
398
399 7.1 New features
400 -----
401 Add script and notes referencing script, to collect customer contact information.
402 Add MC990 X system support
403 Add Lustre monitoring support
404 RS sgiremote should be [dis-en]abled on-demand by customer
405 NetApp cli tool for sgirs only
406 Add new '-s' option with memlogd command
407 Track retired pages from /proc/meminfo
408 Make "Memory Demand Scrub not enabled" an event
409 Clean up & update handling of MEMlog errors
410 Gather output of 'slabtop -o'
411 Investigate RAID_Event for software raid using mdadm detail command
412 Remove OnPremise from RS environment
413 __get_repotools_info needs to account for new tar options in YAST2 output file
414 The change to drop sshpass has made externalstorage.txt configuration for DDN invalid.
415 Please see the HPE System Foundation Software Guide for how to configure for DDN.
416
417 8.0 Related Documentation

418 -----
419 None at this time.
420
421 9.0 Reader Comments & Feedback
422 -----
423 Hewlett Packard Enterprise is committed to providing documentation that meets your
424 needs.
425 To help us improve the documentation, send any errors, suggestions, or comments to
426 Documentation
427 Feedback docsfeedback@hpe.com. When submitting your feedback, include the document
428 title,
429 "Remote Services 2.0 - Release Notes". For online help content, include the product
430 name, product version, help edition, and publication date located on the legal
431 notices page.
432
433 You can contact us by sending e-mail to remoteservices@groups.ext.hpe.com
434
435 Accessing Hewlett Packard Enterprise Support
436 For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide
437 website:
438 <http://www.hpe.com/assistance>
439 To access documentation and support services, go to the Hewlett Packard
440 Enterprise Support
441 Center website:
442 <http://www.hpe.com/support/hpesc>
443
444 We value your comments.
445
446 Attachment A
447
448 Configure HTTP Proxy for SGI Remote Services Agent
449 To configure HTTP proxy for SGI Remote Services agent:
450
451 # service sgirs stop
452 # cd /opt/sgi/Axeda/ICEAdminGateway OR cd /opt/sgi/Axeda/UniversalGateway
453 # export LD_LIBRARY_PATH=.:\$LD_LIBRARY_PATH
454 # ./DUModifier -httpproxy <proxy hostname>:<proxy port>
455 # service sgirs start
456
457 If the proxy requires authentication, run the fourth step above as follows:
458
459 # ./DUModifier -httpproxy <proxy hostname>:<proxy port>,<proxy username>,<proxy
460 password>
461 Check the following file to see if it is connecting to the Axeda Platform cloud
462 service:
463
464 /opt/sgi/Axeda/{UniversalGateway|ICEAdminGateway}/xGate.log
465 If there is a script URL, then you can:
466
467 -proxyconfigscript .
468
469 Either disable or specify the script URL.
470
471 Also, there are more options on the command for user,
472 -httpproxy (Either disable or specify server information)
473 -socksproxy (Either disable or specify server information)
474
475 Finally, should you run into strange behavior, confirm that the default proxy
476 configuration of the SLES
477 OS is correct and not interfering.
478
479 The following document from the SUSE Knowledgebase provides information on how to
480 troubleshoot that
481 configuration:
482 <https://www.novell.com/support/kb/doc.php?id=7006845>
483
484 In the case of clusters, the usual configuration involves the use of NAT, so that
485 the cluster nodes
486 can access external information. However, there are cases where that configuration
487 may not be in place.
488 A possible solution is the use of a xinetd redirect directive, where they point to
489 <http://master-node:port>, the xinetd daemon is configured to listen on that port and
490 then redirect to


```
478 https://sgi.axeda.com:443.
479
480 This can be accomplished by creating a file /etc/xinetd.d/sgirs on the proxying node
with the
481 following contents (using port 5553 in this example):
482
483 service sgirs { disable = no type = UNLISTED socket_type = stream protocol = tcp
wait = no
484 redirect = sgi.axeda.com:443 port = 5553 user = nobody }
485
```