

[Released: 06 DEC 2010]

Questions?

Log on to the RadBlue Forum: http://radblue.mywowbb.com/

Release Notes

Release Summary

For this version, we added a new attribute to the SmartEGM configuration file and made some usability improvements to RST.

For more information on the features and modifications discussed in this document, see the RST User Guide.

Functional Modifications

A new edm:command-id-reset attribute has been added to the SmartEGM configuration file.
 This attribute lets you reset the Command ID sequence to 1 just before the commsOnline command is sent.

Set this attribute to **true** to reset the Command ID or set this **false** if you do not want to reset the Command ID. By default, this attribute is set to **false**.

In the following example, the command ID will reset before the commsOnline command is sent

```
<!-- The G2S COMMUNICATIONS Device -->
<edm:communications edm:device-id="1" edm:device-active="true"
edm:configuration-id="0" edm:comms-on-line-ack-timeout="30000"
edm:host-enabled="true" edm:egm-enabled="true" edm:egm-locked="false"
edm:host-locked="false" edm:owner-id="1" edm:config-id="0" edm:vendor-id="Unknown"
edm:product-id="Undefined" edm:release-number="Undefined"
edm:vendor-name="Undefined" edm:product-name="Undefined"
edm:serial-number="Undefined" edm:command-id-reset="true">
</edm:communications>
```

RST now accepts HTTPS as a valid download protocol. The RST must have a certificate signed by the same CA as the download server. The certificate can be loaded through the **Configure** > **Security Options** screen. If you want to use two different certificate authorities (for example, one for G2S communications and one for the download server), contact RadBlue.

Engine Modifications

- Previously, the maximum length of the *G2S_acceptNoMix* attribute in the SmartEGM configuration file was set to zero. The configuration should be a string enumeration of G2S_acceptAlways, G2S_acceptSameExpiration, G2S_acceptNoMix or G2S_acceptNever (see table 3.11 of the *G2S Message Protocol* v1.0.3).
- RST was incorrectly updating EGM-issued meters for system-issued vouchers. RST now correctly updates system-issued meters for system-issued vouchers.

06 DEC 2010 - Version 13 1 of 2

User Interface Modifications

• Amount fields have been changed from millicents to a dollar value. You can enter dollars, cents and millicents, using a DD.CC.MMM format. For example:

If you type	The field value will be
1	1.00
1.	1.00
1.0	1.00
1.00.1	1.00.100
1.00.01	1.00.010
1.00.001	1.00.001

Transcript Modifications

• Previously, the same filtering options applied to all instances of the Transcript object within the tool. Now, each instance of the Transcript object can be filtered differently.

2 of 2 06 DEC 2010 - Version 13



[Released: 08 NOV 2010]

Questions?

Log on to the RadBlue Forum: http://radblue.mywowbb.com/

Release Notes

Release Summary

For this version, we overhauled WAT processing, made changes to the Device Events tab, added a new Send Commands tab and created a new method of entering third-party options in the smartegm-config.xml file. In addition, we added error codes to support the setOptionConfig command, added device events to the Tiger script and addressed several issues.

For more information on the features and modifications discussed in this document, see the RST User Guide.

Engine Modifications

- Previously, the EGM allowed the user to play a progressive game even though the progressive device was disabled. The Play Progressive Game screen now displays an error if the progressive device that is selected is disabled.
- If an setEventState command is sent that disables the eventHandler, the SmartEGM no longer continues to send eventReport commands.
- An issue in which a G2S_CBE205 (EGM Enabled and Playable) cabinet event was sent erroneously has been correctly.
- Previously, when the setMeterSub request was sent during the startup sequence, it used wildcards to subscribe to all meters, but the meterSubList response that was returned contained wildcards instead of an actual list of meters. Now, a the meterSubList contains a list of all meters to which the host has subscribed.
- Wager meters now include meter definitions, if requested.
- The EGM lock and state manager was revisited, and should now process disables and locks correctly (in accordance with the G2S protocol specification), sending appropriate events at the proper times.
- Numerous changes were made to RST events to correct errors that were discovered by the Tester Toolkit.
- RST now checks for the WAT device log during EGM start-up to check the watState. If the watState is not G2S_commitAcked, will send commitTransfer command to the host with watEgmException set to 1 Transfer error from host.

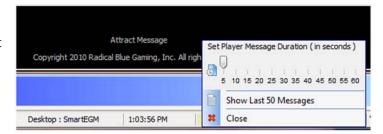
08 NOV 2010 - Version 12 1 of 6

• The SmartEGM configuration file (smartegm-config.xml) has a new method of entering third-party options. This change allows more control over how the option list is generated.

The cabinet class in the new smartegm-config file exemplifies the new method. However, you can modify any other class, as needed, to take advantage of this new functionality. Go to the cabinet class section of the smartegm-config.xml (**RST installation directory** > **smart-conf** > **smart-egm**) to see the changes.

Note that the RST now automatically saves smartegm-config.xml files with old-style option configs to the new option config method when the -updated.xml file is created.

- RST now supports setOptionChange error code G2S_OCX15 (Non-Modifiable Parameter Change Requested by Host), which occurs if the host tries to initiate a change to a parameter when the *canModRemote* attribute is set to **false**.
- RST now supports a table of default values for optionConfig table (for example, the currency data tables).
- The WAT class implementation in RST underwent a complete review, resulting in numerous changes, including the following:
 - Lock text displayed to the player now clears when the *lockOut* is removed or expires.
 - The WAT Account Transfer interface is automatically updated to only allow transfer FROM-EGM when accessing a "frozen" account.
 - **Get Key Pair** is not relevant for host-controlled WAT devices.
 - The *cashOutToWat* attribute is automatically set to **true** by the EGM when a player is authenticated during the getWatAccounts processing. This attribute is automatically cleared when the player's ID is removed.
 - If the *hashType* is changed in the WAT Profile for an EGM-controlled WAT device, the RST now automatically sends a getKeyPair command to the host.
- The RST player display handler has been improved:
 - The display handler will properly accommodate multiple messages being sent to the display while the first message is currently being displayed. In Release 12, the player display now has an inbound queue that is one



message deep, and which is always overwritten by new messages. This means the RST processes the most recent waiting message whenever a displayed message times out. To access all received messages, right-click on the RST Player Display.

• If a device is disabled and then enabled, the message displayed to the player clears when the device is enabled (if it is still being displayed to the player).

2of6

• The following error codes are now supported for the setOptionChange command:

 Table 1
 Supported setOptionChange error codes.

Error Code	Description	
G2S_OCX001	Invalid Device Class/Device Identifier	
G2S_OCX007	Invalid Apply Condition	
G2S_OCX008	Invalid Disable Condition	
G2S_OCX009	Disable Condition Not Specified	
G2S_OCX011	Invalid Option Group for Device	
G2S_OCX012	Invalid Option for Option Group	
G2S_OCX013	Invalid Value Selected for Option	
G2S_OCX014	Invalid paramId for Option	
G2S_OCX015	Non-Modifiable Parameter Change Requested by Host	
G2S_OCX017	Invalid Change Request	

• The following device events have been added to the Tiger script:

 Table 2
 Tiger Script device events added in version 12.

Class	Device Event
Cabinet	AUXILIARY_DOOR_CLOSED
	AUXILIARY_DOOR_OPENED
	BACKUP_BATTERY_LOW
	CABINET_DOOR_CLOSED
	CABINET_DOOR_OPENED
	CABINET_FAULTS_CLEARED
	CASH_OUT
	EGM_POWER_LOST
	EGM_POWER_UP
	EGM_STATE_AUDIT_MODE
	EGM_STATE_DEMO_MODE
	EGM_STATE_OPERATOR_DISABLED
	EGM_STATE_OPERATOR_LOCKED
	EGM_STATE_OPERATOR_MODE
	EXIT_OPERATOR_MENU

08 NOV 2010 - Version 12 3 of 6

 Table 2
 Tiger Script device events added in version 12.

4of6

 Table 2
 Tiger Script device events added in version 12.

Class	Device Event	
	COIN_DROP_DOOR_CLOSED	
	OPERATOR_CHANGED_COIN_ACCEPTOR_CONFIG	
Note Acceptor	ACCEPTOR_FAULT	
	ACCEPTOR_JAMMED	
	CLEAR_ALL_FAULTS	
	COMPONENT_FAULT	
	FIRMWARE_FAULT	
	ILLEGAL_ACTIVITY_DETECTED	
	MECHANICAL_FAULT	
	NON_VOLATILE_MEMORY_FAULT	
	NOTE_ACCEPTOR_CONNECTED	
	OPTICAL_FAULT	
	STACKER_DOOR_OPEN	
	STACKER_FAULT	
	STACKER_FULL	
	STACKER_JAMMED	
	STACKER_NEARLY_FULL	
	STACKER_REMOVED	
	VALIDATOR_TOTALS_RESET	
	NOTE_ACCEPTOR_DISCONNECTED	
	OPERATOR_CHANGED_NOTE_ACCEPTOR_CONFIG	
	STACKER_DOOR_CLOSED	
	STACKER_INSERTED	
Printer Device	CLEAR_ALL_FAULTS	
	COMPONENT_FAULT	
	FIRMWARE_FAULT	
	MECHANICAL_FAULT	
	NON_VOLATILE_MEMORY_FAULT	
	OPTICAL_FAULT	

08 NOV 2010 - Version 12 5 of 6

Class

Device Event

PAPER_EMPTY

PAPER_JAM

PAPER_LOW

PRINT_HEAD_OPEN

PRINTER_CHASSIS_OPEN

PRINTER_CONNECTED

OPERATOR_CHANGED_PRINTER_CONFIG

PRINT_HEAD_CLOSED

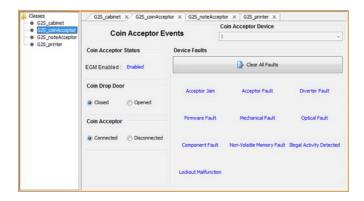
PRINTER_CHASSIS_CLOSED

PRINTER_DISCONNECTED

Table 2 Tiger Script device events added in version 12.

User Interface Modifications

- A new **Send Commands** tab lets you send EGM-initiated optionList, commsHostList, getMcastKeyUpdate and getCountdownOverride commands. These commands were previously located on the Device Events tab.
- The **Send CommsHostList** option on the Send Commands tab will be enabled *only* if there is a comm'Config device.
- The **Device Events** tab has been modified with the addition of a tree-structure control, a new cabinet events option (including employee mode) and a user-friendly layout for each device option screen.



Transcript Modifications

Previously, the amount values in the handpay.handpayRequest command view did not
match the content in the actual message. The values in the handpay.handpayRequest
command view now correctly reflect the message content.

6of6 08 NOV 2010 - Version 12



[Released: 02 AUG 2010]

Questions?

Log on to the RadBlue Forum: http://radblue.mywowbb.com/

Release Notes

Release Summary

For this version, we made improvements to the transcript, enhanced performance of debug version of RST and corrected an issue with the average payback percentage.

For more information on the features and modifications discussed in this document, see the RST User Guide.

User Interface Modifications

- The Send getMcastKeyUpdate screen field names have been updated for improved usablity.
 - The **Send getMcastKeyUpdate** option allows you to send a communications.getMcastKeyUpdate command, which causes the SmartEGM to update its security parameters.
- If the SmartEGM configuration file does not contain any WAT devices, the WAT Transfers tab will now be disabled.



Engine Modifications

- An issue in which RST did not correctly update and report the average payback percentage for game play device 0 has been corrected. The *avgPaybackPct* attribute is now calculated correctly.
- The debug version of RST has been improved for faster performance.
- The voucher engine now correctly uses the *expireNonCash* and *expireCashPromo* attributes in the voucherProfile to determine the *expireDays* and *expireDataTime* attributes when a new promotional or non-cashable voucher is created.

Transcript Modifications

- The detail view of the optionList command has been updated to show the requested EGM device list in a format that allows you to drill down into individual options.
- Additional command information has been added to the Comments column for Multicast commands.
- When the Transcript Message window is moved or resized, the tool now retains the new size and position when other rows are selected.
- The rows of the **Device Meters** tab on the eventReport command detail view now
 automatically resizes all rows so the columns do not need to be resized manually.
 If the columns are adjusted, the tool retains the changes when other meter sets are viewed.
- An issue in which the transcript consumed excessive amounts of system resources has been corrected. The transcript is, once again, well-behaved.

2 of 2 02 AUG 2010 - Version 11



[Released: 07 JUN 2010]

Questions?

Log on to the RadBlue Forum: http://radblue.mywowbb.com/

Release Notes

Release Summary

For this version, we added an option that lets you quickly export debug logs when troubleshooting RST issues and corrected some minor issues.

For more information on the features and modifications discussed in this document, see the RST User Guide.

Functional Modifications

• A new **Export Debug** option, located on the Debug Log tab, lets you create a .zip file containing all the files that the RadBlue support team needs to troubleshoot product issues. When you click **Export Debug**, a **Debug-[product-x.x.x.].zip** file is exported to your computer's desktop.

Attach the .zip file to an email, along with a description of the issue, and send it to support@radblue.com.

or

Go to www.radblue.com/support, complete the support form, attach the .zip file and click **Send**. You will be contacted about your support issue within one business day.

User Interface Modifications

- In previous versions, changes to the SSL Port field value (Configure > Engine Options > SSL IP Address & SSL Port) were not saved. This issue has been corrected.
- The XSD file for the SmartEGM([installation directory] > docs > tiger-script > namespaces > http_www_radblue_com_g2s_egm-data-model_schemas_v1_0_0) has been updated to replace erroneous <tiger:pause> references with the correct <core:pause> element.

Transcript Modifications

- An issue in which the command filter (**Filter** option) caused some commands not to be displayed in the transcript (making it appear that the commands were not received by the tool) has been corrected.
- Minor spelling errors have been corrected on the wat.getWatProfile command view.
- The command view for the wat.initiateTransfer command now displays the correct pay method.

07 JUN 2010 - Version 10 1 of 1



[Released: 07 APR 2010]

Questions?

Log on to the RadBlue Forum: http://radblue.mywowbb.com/

Release Notes

Release Summary

For version 9, we've created a new installer that can be used for all RST versions, added extra meters to several events and corrected minor Transcript issues.

For more information on the features and modifications discussed in this document, see the <u>RST User Guide</u>.

Installation Modifications

- A new RST installer now determines the product version through your license. This allows us to have a single installer for multiple versions of the product. If you were previously using a custom installer, you can now use the general installer available on the RadBlue web site.
- You can view XML schema Help files used with RST by navigating to the **docs** folder in the RST installation directory *or* navigate to:

Start > All Programs > RadBlue System Tester > XSD Docs

XSD Help files are available for Tiger Scripting, G2S, EGM data model configuration, and SmartEGM package definition.

- The file names of the SmartEGM configuration files installed with RST have changed GSA configuration files now contain a "-gsa" identifier. Third-party configuration files are also appropriately identified.
 - smartegm-config-gsa-centralxml
 - smartegm-config-gsa-mult-events-per-msg.xml
 - smartegm-config-gsa-rpa.xml
 - smartegm-config-gsa-student-edition-rpa.xml
 - smartegm-config-gsa-student-edition.xml
 - smartegm-config-gsa-with-sslxml
 - smartegm-config-gsa.xml

Functional Modifications

- The DMV user interface now handles and displays nested complex parameters from option lists. Each parameter is displayed using the parameter name.
- In previous versions, options could be defined in the SmartEGM configuration file for third-party devices, but RST would ignore them. Third-party device options are now read and sent to the host like standard options.

07 APR 2010 - Version 9 1 of 3

Engine Modifications

• The G2S_gamesSinceDoorCLosedCnt and G2S_gamesSincePowerResetCnt meters have been added to the GPE112 event.

User Interface Modifications

• A new verb, tiger:sendMyCommand, has been added to the Tiger script. The sendMyCommand verb lets you send a custom command that is wrapped with the G2S class and G2S message elements before sending. The G2S information completed automatically by RST includes command ID, session ID and date/time values. You can also add attributes and elements in custom namespaces, if required. This option is useful when you want to send a custom command to a device exposed through the descriptor list.

For more information, see the Tiger Scripting Reference.

• Currency, gameDenom and wager meters have been added to several events.

Table 1 gamePlay Class

Event Code	Meter Set	Action
GPE103	gameDenom	wageredAmt increases by the initialWager value.
Primary Game		avgPaybackPct is updated to reflect wager.
Start		theoPaybackAmt is incremented by wager times the payback percent for the wager category played.
	wager category	wageredAmt increases by the initialWager value.
GPE104	gameDenom wageredAmt increases by the wager change value.	
Wager Changed		avgPaybackPct is updated to reflect wager change.
		theoPaybackAmt is incremented by wager times the payback percent for the wager category played.
	wager category	wageredAmt increases by the wager change value.
GPE105	Alternately, the updates for GPE103 and GPE104 (above) can be done at Primary Game End (but not in both places). If done here, use the finalWager value.	
Primary Game End		
GPE112	gameDenom	playedCnt increments by 1.
Game Ended	wager category	playedCnt increments by 1.

Note

gameDenom is the device and class. The wager category affects device meters *only*.

gameDenom meters are referenced by the gameDenom of the gamePlay device being played.

wagerMeters are referenced by the wagerCategory being played.

Table 2 coinAcceptor Class

Event Code	Meter Set	Action
CAE105	currency	Same updates as device meters, but to the
Inappropriate Coin In	[device + class]	currency meters (denomId+currencyId+currencyType).
CAE109		currencyInAmt and (currencyToDropAmt or
Coin(s) Accepted		currencyToDispenserAmt) increment by
		baseCashableAmt of accepted currency.
		currencyInCnt and (currencyToDropCnt or currencyToDispenserCnt) increment by
		number of coins accepted.

Table 3 noteAcceptor Class

Event Code	Meter Set	Action
NAE114 Note Stacked	currency [device + class]	Same updates as device meters, but to the currency meters (denomId+currencyId+currencyType). currencyInAmt and (currencyToDropAmt or currencyToDispenserAmt) increment by baseCashableAmt of accepted currency. currencyInCnt and (currencyToDropCnt or currencyToDispenserCnt) increment by 1.

Table 4 hopper Class

Event Code	Meter Set	Action
HPE109	currency	Same updates as device meters, but to the
(Extra) Coins Paid	[device + class]	currency meters (denomId+currencyId+currencyType).
HPE113		currencyOutAmt increments by
Coins Dispensed		baseCashableAmt of (extra) coins dispensed.
		currencyOutCnt increments by number of (extra) coins dispensed.

Transcript Modifications

- The Transcript has been updated to properly display eventReport event text. Previously, event text would not display if it contained a colon (:).
- The command view for invalid G2S messages now directs the user to view the command XML.

07 APR 2010 - Version 9 3 of 3



[Released: 08 MAR 2010]

Questions?

Log on to the RadBlue Forum: http://radblue.mywowbb.com/

Release Notes

Release Summary

In this release, we have made improvements that allow you to more easily use SSL in RST, added a new multicast bonus activity filter, and added two new device events. In addition, we moved all S2S functionality to the new RadBlue S2S Simulator (RSS) tool

For more information on the features and modifications discussed in this document, see the RST User Guide.

Installation Modifications

- RST now uses **Java 1.6.0_18** for both Windows and Linux versions. This version of Java *must* be installed on your computer to complete RGS installation. If the installer does not detect this version of Java on your computer, you are prompted to download it.
 - Click **Download** to download and install the new Java version before continuing with the installation.
 - Click **Locate** to browse to the **java.exe** file for version 1.6.0_18.
 - Click Cancel to exit the installation.

Configuration Modifications

- We've improved the **Configure** > **Security Options** screen to make using SSL easy. You can choose one of three options:
 - **Self-Signing** Create a self-signed certificate from the tool.
 - **SCEP** Use SCEP to create a request that is sent to the certificate authority and automatically imports the signed certificate when it becomes available.
 - **Third-Party** Create a request that you manually send to the certificate authority, and then manually import the signed certificate into the tool.
- The **Approve all certificates** option under **Configure** > **Security Options** is now disabled by default. When this option is disabled, you must have a valid certificate from the certificate authority and use an SSL connection (HTTPS).
- A Filter Multicast G2S Bonus Activity from Transcript option has been added to the Configure > Engine Options screen. Enable this option to filter G2S bonus.bonusActivity commands from the Transcript and Multicast Transcript if (and only if) the bonus.bonusActivity command is sent via multicast.

08 MAR 2010 - Version 8 1 of 2

Functional Modifications

- S2S functionality has been removed from RST. The new RadBlue S2S Simulator (RSS) provides all of the S2S features and functionality that were previously part of RST.
 - For more information, see the RSS Overview and RSS User Guide.
- Two new options have been added to the device events panel.
 - The **Send getCountdownOverride** option sends a request for the currently active countdown override from a specified player device to the host.
 - The **Send getMcastKeyUpdate** option allows you to send a communications.getMcastKeyUpdate command, which causes the SmartEGM to update its security parameters.
- An entry is now posted to the debug log when a host rejects the wat.initiateTransfer command.

Engine Modifications

- The **G2S_minLevelValIds** value has been changed from "15" to "5" in all SmartEGM configuration files, so the SmartEGM will not request additional validation IDs until five (5) validation IDs are remain unallocated.
- Previously, RST did not properly handle optionConfig parameter values that were split across multiple lines in the SmartEGM configuration file. This issue has been corrected.
- An issue has been corrected in which RST was incorrectly interpreting the seed value in the gat.doVerification command. This value is now interpreted correctly.
- In previous versions, RST attempted to validate the seed value for all gat.doVerification request RST now validates the seed value for CRC16 and CRC32 validation requests *only*.

User Interface Modifications

- The Floor Tab has been modified to remove obsolete objects. The following objects now appear under the "General" heading:
 - SmartEGM
 - Logger Console
 - Transcript Control
 - SOAP Transcript
 - Multicast Transcript
 - Watchables Control

Objects appearing under the "Tools" heading are unchanged.



[Released: 03 FEB 2010]

Questions?

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Release Notes

Release Summary

In this release, we updated RST to G2S protocol version 1.0.3r5, made improvements in how RST handles certain messages, improved Transcript message filtering, added a command view to the message detail in the Transcript, and made several corrections.

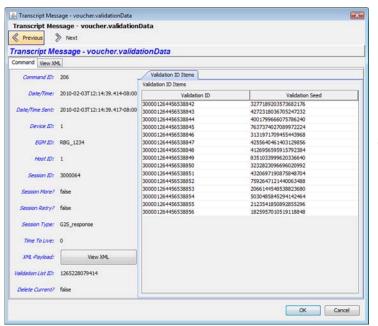
Important Notes!

You must have a 2010 license to use RST versions released in 2010. This includes RST 7. No license? Give us a call at +1.775.329.0990, or send an e-mail to support@radblue.com.

Version 1.0.3r5 is *not* backwards compatible with any previous 1.0.3 versions. In this version of RST, we moved to the G2S 1.0.3r5 schema (the latest published version). In that schema, there is a new *expireDays* attribute in the voucher class that will cause validation errors in your G2S host if you are validating messages against a prior version of the G2S schema.

Improvements

- RST has been updated to G2S protocol version 1.0.3r5.
- Command objects are now incorporated into the detail view of Transcript messages. Simply double-click a message to view the command object and XML.



Sample command object.

03 FEB 2010 - Version 7 1 of 3

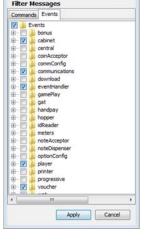
- For clarity, two columns on the Devices subtab, on the SmartEGM's Main tab, have been renamed **Host Enabled** and **EGM Enabled**.
- The Filter option on the Transcript object now uses a tree-structured control that lets you quickly find the messages and events you want to filter.
- For the Player Verbs **Create Voucher** and **Insert Voucher**, the ID reader Device ID is now optional. The user interface allows you to select a Device ID of zero (0), which lets you send the selected message without using a device ID.
- When the SmartEGM is not running, it now sends an **MSX003** error in response to all received commands until the SmartEGM starts.

Corrections

- Non-standard EGM ID values are now displayed properly in the Transcript
- An issue in which an error would display in the debug log if an EGM ID contained a colon (:) has been corrected.
- Previously, RST did not verify whether or not an incoming G2S request was allowed to be sent
 as a request, and just processed the message. Now, RST rejects a response sent as a request
 with an APX008 error.
- The *verifyResult* attribute returned by the SmartEGM is now 0-9 and A-F. Previously, the RST used 0-9 and a-f.
- Previously, if the issueVoucherAck response was not received from the host, the SmartEGM would leave the meters in an inconsistent state. Now, the meters are rolled back to the correct values if the issueVoucherAck does not arrive.
- Previously, the SmartEGM executed download commands even if the download device was disabled. Now, RST rejects download commands if the download device is disabled.
- The functionality that allows you to send multiple eventReports in a single message now
 works correctly. For an example of this functionality, load and run the
 smartegm-config-mult-events-per-msg.xml configuration file.

To initiate multiple events in a single message, you need to add two additional attributes to the eventHandler device in the **smartegm-config.xml** file as follows:

```
<edm:event-handler edm:device-id="1" edm:device-active="true"
edm:configuration-id="0" edm:host-enabled="true"
edm:egm-enabled="true" edm:egm-locked="false" edm:host-locked="false"
edm:chatty="true" edm:owner-id="1" edm:config-id="1" edm:vendor-id="Unknown"
edm:product-id="Undefined" edm:release-number="Undefined"
edm:vendor-name="Undefined" edm:product-name="Undefined"
edm:serial-number="Undefined"
edm:event-report-combine="true" edm:event-report-combine-count="5">
```



- When a door is closed in the SmartEGM, the door open date/time attribute now continues to reflect the date and time of the door opening. Previously, the attribute value was set to "null."
- RST now sends a joinMcastAck response during the rejoin (double join) of the device. If the *multicastLocation* is different during the rejoin, RST sends a CMX005 (Not Unique MulticastId) error code.
 - The **G2S_CME110 (Join Multicast Group)** event is sent only when a *new* device joins a multicast group, not during the rejoin.
- If a seed is not supplied for an algorithm that requires it (CRC algorithms), a G2S_GAX013 error is generated.

03 FEB 2010 - Version 7 3 of 3