What's New in PolicyGuru® Meta-Policy Controller v2.1
Knowledge Base Article #PG014

What's New in v2.1

- **New IPS Rule Functionality**—This release includes new IPS functionality for specific scenarios.

- **New CEP Rule Functionality**— New CEP Rule functionality is provided. You can now track and alert on calls for which a specified DTMF digit count is reached within a specified time interval in low-volume calling environment up to 10 CPS. You can also now create CEP Rules to automatically add phone numbers to Lists used in Rules in the SEP Policy and then automatically reinstall the SEP Policy when a configurable count of numbers has been added or after a configurable time interval.

- **Ability to import entries into an existing whitelist or blacklist**—Previously, new lists could be imported but updating an existing list via import was not supported. Import into an existing list is now supported.

- **Customer's CA-signed certificate support**—The ability to import and use a customer's CA-signed certificate has been verified in this release.

- **Configurable database purging**—You can now schedule regular database purging to maintain the size of the database to the number of months of data you want to maintain. SecureLogix supports retaining no more than 13 months of data in the working database.

- **Policy processing improvements**—This release includes background Rule processing performance improvements.

- **Stability and performance improvements**—A number of updates have been made to improve system stability and performance, including improved monitoring of system components to better detect potential connectivity issues and tuning of intra-application communication mechanisms for optimal performance.

- **Improved logging support**—Additional tools and utilities are included for improved file browsing and management, including facilitating finding important troubleshooting information in large logs. Additionally, the ability to auto-purge log files older than a user-configurable time to free up disk space has been added.

- **Deployability improvements**—Installer improvements have been made to reduce manual host system configuration and additional console tools are available to simplify editing of server-side configuration files.

Issue Resolution

The following issues are dressed in this release:

- **NGP-212**—While downloading large SEP policy updates or resyncs (listing counts in the hundreds of thousands or greater) to ENUM servers, connection timeouts would occur after 60 seconds and policy commit would fail.

- **NGP-213**— If power loss occurred on a PolicyGuru system during **ngp** service start or stop, temp files may have be left in the **/var/tmp** folder that would prevent normal **ngp** service startup after the system started back up. Manual actions were required to clear the files in **/var/tmp** in that scenario.

- **NGP-218**—The **SipFlowFactory** rules engine intermittently failed to set the call disposition of

transferred calls to **TRANSFERRED** depending on the timing of the SIP messages and the order in which rules are evaluated within the rules engine.

- **NGP-221**— CEP Rules that access the database in the **WHEN** portion of the rule will do so on fact insertion into the rules engine, even if the rule is "disabled" by the **date-effective** clause. This can degrade CEP engine performance (and to some degree system performance) in instances where a large network latency exists between the Mediation Server and Database.

- **NGP-222**—An empty media description in a SIP message can lead to a null pointer exception that renders the **SipFlowFactory** rules engine inoperable.

- **NGP-224**— The Metadata Probe supports Initial Fragment processing. Since initial Fragments may not include all of the expected SIP headers, additional error checking was added to the rules engine that performs SIP to Flow processing on the Mediation Server. Checks were added to verify that a **CSeq** header is present in all messages, and that a **From** header, **To** header, and **Via** header are present in all Invite messages. Messages not containing these headers are discarded.

- **NGP-241**—**SipFlowFactory** rules engine produces errors when the SIP **From** or **To** header URIs do not contain a user part. The user portion of the URI typically contains the source or destination phone number. Sometimes it contain a string such as "anonymous" or "restricted". It is also possible (but not common) for the URI (particularly the **From** URI) to only include a host name or IP address, such as "sip:10.10.10.10". In that scenario, the Flow Factory produces an error because it always expects an '@' to be present in the SIP URI. Despite the error, the entire contents of the **From**/**To** header are logged as the **Source**/**Destination** value). This update will detect that the '@' is not present in the URI, and prevents the error from occurring. The entire contents of the **From**/**To** header will still logged in this scenario as before.

Last Update: 9/1/2017

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