New BECS version

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BECS release

New GUI with a modern and sleek design

We have taken the first steps towards a new and modern GUI in BECS, and we are very excited to introduce the initial stage of this development in the upcoming release, which primarily focuses on design and usability:

More user-friendly functionality

As we are aiming to enhance user-friendliness, we have reinforced the functionality of icons with clear textual descriptions and redesigned them to clarify their application.
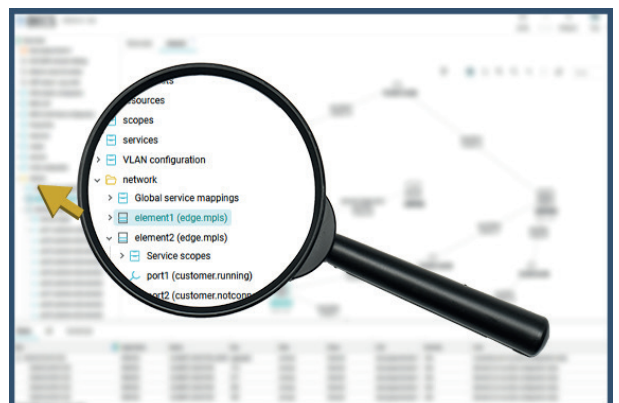

Sleeker and cleaner design

To provide a neater and cleaner overview, we have redesigned the topology view with shades and text clarifications.

More modernised GUI

We have redesigned the configuration tree with new icons and clearer colour contrasts for increased user-friendliness and a more modern layout.

Expansion of the Access Log functionality

Boosting regulatory compliance through advancing access logging in BECS

To enhance compliance with EU and UK regulations, we've upgraded BECS's access logging to capture all user attempts via GUI or API, as well as any login activity to and from elements. Moreover, access logs can now be generated whenever elements fetch updates or receive new configurations from the ElementManager. This feature ensures enhanced security and greater transparency for system administrators.

Streamlined configuration of access logs and optimal logging in BECS

To minimize system load, access log generation is disabled by default. users can enable access log generation for Element managers from Logman using CLI command. With the launch of release 3.26, users now have two methods for enabling access logs in ExtAPI, CLI command, which will be phased out in version 3.27, and the new, preferred method through Logman configuration using the CLI command. It's important for new users to adopt the Logman method and for existing users to transition to it, as Logman configurations take precedence over ExtAPI settings, this means that when configuration is added in Logman any configuration in ExtAPI will be ignored forever.

Additionally, access logs can now be seamlessly transmitted to MQ with extended support. Moreover, in conjunction with MQF, users can efficiently relay these logs to a remote syslog server for comprehensive monitoring and analysis.

Complementary Enhancements and improvements

Optimized performance

We've upgraded BECS to improve performance and efficiency, especially in networks with large elements and many connected clients. Our solution prevents redundant configurations by ensuring that changes to a single element are completed sequentially, while still allowing concurrent configurations across multiple elements. This enhancement eliminates unnecessary restarts and streamlines the configuration process for a smoother user experience.

Enhanced DHCP lease acquisition

We've made improvements to DHCP lease acquisition, particularly when using an external DHCP server, ensuring both reliability and security. Now, clients previously unable to acquire leases due to some identified issues can securely obtain them. These measures not only enhance the DHCP lease acquisition process but also strengthen security for our users' networks.

Improved GUI Responsiveness

We've identified and resolved a critical challenge where certain operations overwhelmed the BECS GUI with excessive data, causing memory constraints. Our solution ensures efficient handling of large datasets by limiting the inclusion of affected elements or contexts in the response when the default threshold is exceeded. This upgrade proves invaluable, especially during the execution of jobs impacting numerous elements, empowering users with a smoother, more responsive interface for managing their network operations.

Enhanced accuracy in "Address history"

Introducing support for microseconds timestamps in the address history window, enhancing system accuracy and facilitating improved debugging and troubleshooting. By refining the Netlog time resolution from seconds to milliseconds, we've ensured a more precise order of entries in the "Address history," leading to more effective debugging and troubleshooting processes.

Client report

We have developed a new feature to collect and save information about leased IP addresses from all cells aimed at boosting troubleshooting efficiency. This function can be scheduled and run in the background, generating a comprehensive client report stored in the file repository. This report includes essential details about cells, clients, elements, interfaces, and services, providing invaluable insights for troubleshooting purposes.

Improved IP address assignment

In the latest release of BECS, we've introduced enhancements to IP assignment capabilities to ensure seamless operations. Previously, elements faced difficulties obtaining IPs from newly added global scopes after a cell's IP pool was exhausted. This issue has been resolved, allowing for smoother IP allocation across all scopes. Additionally, we've optimized the distribution of aggregated subnets to ASRs, preventing unnecessary assignments and maximizing resource utilization. These improvements streamline IP assignment processes, guaranteeing efficient network operations for our users.

For more information and an upgrade:
- Please contact your PacketFront contact or your BECS partner.
- If you perform the upgrade yourself, you will find all the required information in your Installation Guide.

PacketFront Software

Since 2001, PacketFront Software has delivered efficient automation solutions for telecom operators, city carriers and enterprises in more than 20 countries. Our multi-vendor network orchestrator, BECS, provides true end-to-end network automation - enabling functionality such as zero touch configuration and automated service provisioning for all IP networks. It also offers a seamless migration from legacy networks to SDN and NFV.

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