# **FRAFOS ABC SBC Release Notes**

Release 5.5.2

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For a detailed list of all changes and fixes, please check the changelog.

### **Chapter 1**

## **Common container changes**

- Both ABC SBC containers are available in OCI format only. Systemd containers are not supported in ABC SBC 5.5.
- The SBC 5.5 container architecture has been migrated from systemd to s6. The internals of Cluster Config Manager container remained systemd based.

#### **Chapter 2**

## **Cluster Config Manager / GUI changes**

- It is possible to clone a call agent including all his A/C rules. This functionality is available from *Realms* screen.
- More information was added into registration agent status screen. Specifically Reason, next hop and contact.
- CCM REST API supports routing tables.
- A link to an ABC Monitor was added into a *Monitoring* section, if an ABC Monitor address is configured in the CCM configuration correctly.
- Drag and drop functionality is available on Overview screen. If a rule is dragged and dropped inside same rules section then it is moved. If the drag is into a different rules section or different call agent or realm then this rule is copied there.
- A *Discard* button is added next to *Activate* button to allow quick way how to remove all pending configuration changes.
- It is possible to import provisioned tables from CSV file. It is also possible to export existing provisioned table into CSV file.
- Routing type provisioned tables are allowed in *Read Call Variables* condition and *Read call variable from table* action.
- Added support for configuration of probe nodes. For more information see app\_probe.
- Fork action is no longer available in C rules.
- Added a possibility to search a call agent in *Monitoring -> Call agents status* screen.
- HTTP Proxy and HTTP Redirect interface applications are not supported in ABC SBC 5.5.
- It is no longer possible to SSH into ABC SBC container.
- The CCM supports adding a node host including SSH credentials to allow access to a host from CCM using management console.
- CCM now supports TLS v1.3.
- The *Realms* screen offers an easy way to copy the IP address / domain name of a call agent while moving mouse pointer over it.
- The CCM supports two-factor authentication. For more information see Sec-TFA-APP.

### **Chapter 3**

## **SBC changes**

• Unified SBC management service

In 5.5 all IMI interface applications were merged into a single service called gopi. The CCM still offers possibility to configure legacy applications for 5.4 and older nodes if required.

• High Availability: switchover on signaling process failure

If setup is configured in High Availability mode, the main ABC SBC signaling process is now monitored and HA switchover initiated also if it detects that the process fails to run for more than 6 seconds (or the process would be creating coredump after crash, if coredumps are enabled, and that taking more then 6 seconds).

• High Availability: faster switchovers

If setup is configured in High Availability mode, it is now possible to tune the advert interval below 1 second using a global config option, if faster switchovers are needed.

Important: to allow the advert intervals below 1 second, the keepalived now uses VRRP protocol version 3 instead of 2. Special attention has to be paid when upgrading 5.4 setup using High Availability to 5.5. The VRRP protocol version 2 used on 5.4 ABC SBC is not compatible with version 3 used starting with ABC SBC 5.5. During the upgrade, while one node is still running 5.4 and another node is already running 5.5, it will happen that both nodes will become MASTER temporarily, until both nodes are running 5.5.

To prevent this situation, it is recommended:

- set the node that will be upgraded as second to "Force HA offline" mode (which can be done via GUI System / Nodes screen)
- do the upgrade of first node
- do the upgrade of the second node
- do "Un-force HA offline" of the second node, once it is running 5.5
- High Availability: split brain prevention

It is now possible to enable using also signaling interfaces for the HA VRRP adverts, in addition to default adverts sent between HA nodes on IMI (or custom) interface. This can help to prevent the HA "split brain" situation happening in case the IMI interface communication breaks for some reason, while both nodes are still functional and can communicate on signaling interface.

Together with this change, the HA VRRP advert packets use IP multicast by default now. If using IP multicast is problem for any reason (due to some networking deployment limitations), it is still possible to switch back to using IP unicast. But if using IP unicast, the option to send HA VRRP advert packets also on signaling interfaces cannot be used.

With the VRRP advert packets on multicast by default, it is now also needed to distinguish more HA pairs using "VRRP router ID". A new option for that was added under HA group, which is pre-filled with random unique ID value (1-255) when the HA group is being added. It can be also edited, for cases like there would be conflict of the VRRP router ID with some other equipment that also uses VRRP protocol on the same

network (or another separate SBC HA pair). On upgrade from previous ABC SBC releases, if more HA groups / pairs are used that share the same IMI network, admin should ensure in the CCM GUI that the "VRRP router ID" option specifies different IDs for the HA groups. If the new global config option "Use also signaling interfaces for vrrp adverts" is enabled, than a range of IDs starting with the value configured under HA group is used.

- It is possible to lower the HA priority of an SBC node from a host where SBC container is running. This is intended for use cases such as monitoring the host's hardware health and proactively triggering an HA switchover when a serious hardware issue is detected. For more information see Sec-High-Availability-administration.
- The *HA vrrp and call state replication* interface application can be started on a custom interface which can be a different physical interface from IMI.
- Local config templates

The SBC uses a new reworked set of configuration file templates. If custom local templates are being used, the old local templates won't work together with new SBC and will need manual update.

• Metrics Collection Update

SNMP support has been deprecated. The preferred method for collecting metrics is now Prometheus, offering improved performance, scalability, and easier integration with modern monitoring systems. For more information see Sec-SNMP.

- There are new Prometheus metrics: HA status and active registrations counter per signaling interface.
- Call Agent will use auth credentials from Register Agent in calls in case there is no other configured.
- Added SRTP support for SIPREC.
- Update Supported header action contains new value Whitelist tags which removes tags that are not listed.
- There is a new global config option which can enable or disable answering of ICMP requests.
- Added TLS support for remote syslog.