

Project Release Bulletin

Project Name:	CompletePBX v.4.6.1	Date:	7-May-15
PID:	CX1-xx, CXR2xxx, CXE2xxx, CXR3xxx, CXE3xxx, CXT3xxx, CXE4000, CTS2000, CTS3000, CXTS3000	Number of Pages:	5

1. What's New

1. A new high availability system - **TwinStar Plus** replaces the older TwinStar version:
 - a. **No Astribank required** - TwinStar Plus removes the requirement for an Astribank and now supports pure IP environments, as well as converged PSTN + IP environments
 - b. **Full Plug & Play now available with TwinStar Plus** and Astribank to increase reliability, reduce recovery time and facilitate maintenance.
 - c. TwinStar Plus uses different licensing logic than previous versions (details below)
 - d. Different licensing mechanism in TwinStar Plus (details below).
2. Bug fixes

2. Software Description

Name	Version	Notes
CentOS/Kernel	6.6/2.6.32-504.16.2.el6.x86_64	Changed
FreePBX	2.11	
Asterisk	11.17.1	Changed
DAHDI	2.10.1-1	Changed
libpri	1.4.14-2	

CompletePBX modules	cpbx-xepm-1.0.19-1 cpbx-syssettings-3.10.8-1 cpbx-routing_groups-3.04.0-1 cpbx-branding-1.10.0-1 cpbx-faxmaster-3.00.3-1	Changed
freepbx-module-zapauto	0.7.14-1	
Switchboard	FOP 2.27.2	
ccStats Lite (Statistics Reporting)	1.5	
ccStats Pro (Statistics Reporting)	2.0.7	
twinstar-corosync	1.3.1-1	New
CompleteSBC components	sems-2.3.1-10 sbc-gui-2.3.1-21 sbc-db-2.3.1-2 sbc-cfg-2.3.1-12 sbc-license-2.0.1-1	

3. Bug Fixes

The following bugs have been fixed since the previous officially released CompletePBX version (4.6.0):

- Routing Groups module:
 - If the Routing Groups parameter was set to “All routes” it was not possible to make calls to any outbound routes from a newly created extension. Re-opening

the extension settings page and clicking the Submit button was the suggested workaround. This problem was reported in v. 3.01.0 and fixed in v.3.03.0.

- If a user tried to make a call to an invalid phone number via a routing group then the PBX didn't play the diagnostic message to the caller. This problem was fixed in v. 3.04.0. Note: The "Use bad-number Context" parameter must also be enabled in the Settings | Advanced dialog.
- Fail2ban settings:
 - When CompleteSBC logging was configured for the DEBUG level then fail2ban mistakenly banned remote endpoints. More precise regex defined in the sbc-cpbx.local filter file solved the problem. The fix is delivered with the fail2ban-sbc-config package v.1.01.0.
 - When no notification e-mail addresses have been defined then fail2ban displays error messages upon start up. The problem is fixed in fail2ban v.0.8.13-4.
 - The 'whois' utility that is required by fail2ban is now installed. This utility allows fail2ban to obtain details about the intruder's IP address and include them in the notification e-mail message.

4. Changes

- TwinStar Plus is now supported. In contrast to the previous TwinStar version, where at least one connected Astribank device was required, the **TwinStar Plus system enables a pure VoIP PBX clustering solution without any Astribanks whatsoever.**
- All system packages have been updated to the currently available versions including the OpenSSL package that includes fixes for the recently discovered vulnerabilities CVE-2015-0209, CVE-2015-0286, CVE-2015-0287, CVE-2015-0289, CVE-2015-0292 and CVE-2015-0293.
- The DAHDI packages have been updated to v.2.10.1. Full Plug & Play is now available for Astribanks in TwinStar Plus mode.
- Due to the Plug & Play capabilities **recovery time is significantly reduced.** In case of failover the backup server does not need to wait for all the units to register, but rather provides services to each Astribank in turn, as it registers.
- Due to Plug & Play partial configuration failover is handled in a better fashion. For example, in the case of a lightning strike that damages the main server and one or more Astribank units the system will limit the malfunction to the damaged units only, and the rest of the Astribanks will continue to function flawlessly.
- The AMPBADNUMBER FreePBX parameter is enabled by default. This allows the PBX to play a diagnostic message when the caller tries to make a call to an invalid number via a routing group.
- The TwinStar Plus licensing logic is different than that of the older TwinStar versions. TwinStar Plus requires a license on both servers and on each connected Astribank. For more information [see the new licensing procedure document](#).

Notes:

This new version is available only as a 64-bit version. The software images can be installed on all existing IP-PBX models. C/XR1000 compatibility starts with S/N X1046954 and C/XR2000 compatibility starts with S/N X1046564. This is due to incompatibility with the previous Intel D201GLY2 (Celeron) motherboards used on those systems.

Table of Xorcom Rapid Recovery Images

Image Name	Server Model
CPBX-4.6.1-X23-RAID1-64b	CXE2000 (D525 and D2500 CPU based), CXE3000/CXT3000 (Q9550 and i3-2120 CPU based)
CPBX-4.6.1-X1234-64b	CXE4000. Can also be installed on CXR1000 (Atom D425 CPU based), CXR2000 (D525 and D2500 CPU based), CXR3000 (G850, E8400, Q9550 CPU based) if 64bit version is required.
CPBX-4.6.1-X23-RAID1-TW-64b	CTS2000, CTS3000, CXTS3000

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