



Cisco BTS 10200 Softswitch EMS Admissions Control Policy Feature Module

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This document describes the Element Management System (EMS) Admissions Control Policy feature for Release 6.0 of the Cisco BTS 10200 Softswitch and explains how to use it. The EMS Admissions Control Policy (EACP) provides the policies that determine whether or not a BTS 10200 EMS user is allowed to access the operations, administration, maintenance, and provisioning (OAM&P) functions of the BTS 10200 system. In Release 6.0, the EACP is limited to the per-user based usage limits of EMS sessions. All EMS users are subject to the EACP with the exceptions of maintenance (MAINT) category users, Communications Assistance for Law Enforcement Act (CALEA) users, ciscousers, btsadmin, and optiusers.

Understanding the EMS Admissions Control Policy Feature

The EACP feature defines the policies basis on which it is determined whether a BTS EMS user is allowed to access and use the OAM&P functions of the BTS 10200. One policy is used to apply a user based limit on EMS sessions. It determines the limit on number of simultaneous sessions (through a specific adapter) that can be opened for a user. Once the policy set limit is reached, no more new sessions from that user are allowed. This policy is applied on each adapter independently.

Current specifications of the EACP are:

- EMS users are subject to the EACP based on a per adapter-type basis. Currently only the PCSP (Packet Cable for SOAP) addapter is supported.
- The EMS user session-limit is configurable on a combination of user and adapter-type basis.
- For each admissions-denied condition, an appropriate event (no clearance) is raised (OSS 24). The event information includes user-id, adapter-type, max-limit, #denials-so-far (since adapter restart), date, time, and EMS-SIDE. Additionally, a trace log with similar information is also logged.
- Only users with command-level 10 are able to reconfigure (CHANGE) the user session limit. But all EMS users are able to view (SHOW) the session limits.
- Only users with command-level 10 are able to reconfigure (CHANGE) the default user session limit for an adapter. But all EMS users are able to view (SHOW) the default session limit.



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- The EACP feature is able to show EMS users a counter of the number of times a user has been denied entry since the adapter was started or restarted. This information is viewable using the **show user_session_limit** command.
- On switchover, the static status of EACP takes effect on the new active side. The static status includes user changeable provisioning `SESSION_LIMIT` and `USE_DEFAULT_LIMIT` parameters.
- On dual-outage conditions and subsequent restart, the dynamic status is reset. The dynamic status is defined as denials.
- On a restart not involving a dual-outage, the static status of the mate EMS (active-side) takes effect on the standby side.
- The EACP is limited to PC 1.5 Simple Object Access Protocol/Extensible Markup Language (SOAP/XML) sessions only in BTS 6.0. The EACP for generic SOAP/XML and CORBA will be added later.
- The default EMS user session-limit is configurable on adapter-type basis. The initial default user session-limit of PC 1.5 SOAP/XML is 10. The range of available sessions is 1–20, with the default of 10 sessions.

The EACP feature capability is part of the standard BST 10200 deployment for Release 6.0.

Troubleshooting

This section explains how to troubleshoot the following conditions:

- [User Login Sessions have Reached the User Session Limit—OSS \(24\)](#)

User Login Sessions have Reached the User Session Limit—OSS (24)

The User Login Sessions have Reached the User Session Limit event serves as a warning that the user login has been denied because the maximum session limit has been reached. To correct the cause of the warning, use the **show user_session_limit** command to view the user session limit and use the **change user_session_limit** command to change the user session limit. The user session limits is also affected by the `user-session-limit-default` setting.

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