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"3GPP2"

Wireless Features Description: Circuit Switched Call Precedence Over CDMA Packet Data Session

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1 Circuit Switched Call Precedence Over CDMA Packet Data Session (CPOP)

Circuit Switched Call Precedence Over CDMA Packet Data Session (CPOP) enables circuit-switched calls to be delivered to a subscriber engaged in an active CDMA packet data session. The packet data session is suspended (i.e., dormant) for the duration of the circuit-switched call.

Applicability to Telecommunications Services

CPOP is applicable to circuit-switched and CDMA packet data services.

1.1 Normal Procedures with Successful Outcome

Authorization

CPOP may be generally available or may be provided after pre-arrangement with the service provider.

CPOP may be authorized for the following subscriptions options:

Table 1: CPOP Subscription Options

Subscription Options	Values
Activation	Demand. The subscriber is authorized to control the activation and deactivation of CPOP.
	Permanent. CPOP is active while authorized (unless canceled).

De-Authorization

CPOP may be withdrawn at the subscriber's request or for administrative reasons.

Registration

CPOP has no registration.

De-Registration

CPOP has no de-registration.

Activation

CPOP may be activated upon authorization.

CPOP may be activated by a Demand Activation authorized subscriber specifying a CPOP activation feature code, as in:

* FC + **SEND** .

If the activation is accepted, the system shall indicate success with feature confirmation treatment.

De-Activation

CPOP shall be de-activated upon de-authorization.

CPOP may be de-activated by a Demand Activation authorized subscriber specifying a CPOP de-activation feature code, as in:

* FC0 + **SEND** .

If the de-activation is accepted, the system shall indicate success with feature confirmation treatment.

Invocation

CPOP is invoked when an incoming circuit-switched call arrives for a subscriber who is engaged in an active CDMA packet data session.

Normal Operation with Successful Outcome

When an incoming call arrives for a CPOP subscriber engaged in an active CDMA packet data session (and simultaneous circuit switched and CDMA packet data services are not supported, or concurrent circuit-mode and packet data service is not authorized and active for the MS), the circuit-switched call is given precedence. The active CDMA packet data session is put in the dormant mode and the circuit-switched call is presented to the subscriber and normal call processing applies. While the circuit-switched call is active, the MS is not accessible for CDMA packet data service.

When the circuit-switched call ends, the CDMA packet data session may then resume.

Data Recording

The system should record call detail information for the following:

- a. CPOP activation activities and events.
- b. CPOP de-activation activities and events.
- c. CPOP invocation activities.
- d. CPOP usage duration.

See *DMH* for the specific information to be included for each element.

1.2 Exception Procedures or Unsuccessful Outcome

Registration

None identified.

De-Registration

None identified.

Activation

If the subscriber is not authorized for the request, the system shall apply feature denial treatment when activation is attempted.

De-Activation

If the subscriber is not authorized for the request, the system shall apply feature denial treatment when deactivation is attempted.

Invocation

None identified.

Exceptions While Roaming

None identified.

Exceptions During Intersystem Handoff

None identified.

1.3 Alternate Procedures

None identified.

1.4 Interactions with Other Network Services

No interactions have been identified, with the following exceptions:

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Call Delivery (CD)

If CD is inactive while the subscriber is roaming, the subscriber is considered to be inaccessible. Even if the subscriber has CPOP active, incoming circuit-switched calls shall be given the subscriber inaccessible treatment.

If CD is active and registered for a roaming subscriber, or if the subscriber is at home, CPOP works normally.

Call Forwarding Busy (CFB)

CPOP takes precedence over CFB.

Call Forwarding Default (CFD)

CPOP takes precedence over CFD.

Call Forwarding No Answer (CFNA)

CPOP takes precedence over CFNA.

Call Forwarding Unconditional (CFU)

CFU takes precedence over CPOP. Calls arriving when CFU is active, are forwarded unconditionally and not given CPOP treatment.

Do Not Disturb (DND)

DND takes precedence over CPOP.

Flexible Alerting (FA)

Interaction between FA and CPOP is beyond the scope of this document. The following describes a possible implementation:

CPOP of the FA Pilot Directory Number shall apply to calls to the Pilot Directory Number when one or more members of the FA group is engaged in a CDMA packet data session. CPOP shall be applied to the members of the FA group engaged in a CDMA packet data session. If the FA Pilot Directory Number does not have CPOP active, CPOP may not apply.

Group 3 Facsimile (G3 Fax)

CPOP is applicable to G3 FAX calls that are received when the subscriber is engaged in a CDMA packet data session.

Mobile Access Hunting (MAH)

Interaction between MAH and CPOP is beyond the scope of this document. The following describes a possible implementation:

For a single user MAH group, CPOP may be applied to a MAH member engaged in a CDMA packet data session.

For a multiple user MAH group, CPOP of the MAH Pilot Directory Number shall apply to calls to the Pilot Directory Number when one or more members of the MAH group is engaged in a CDMA packet data session. CPOP shall be applied to the members of the MAH group engaged in a CDMA packet data session. If the MAH Pilot Directory Number does not have CPOP active, CPOP may not apply.

Password Call Acceptance (PCA)

PCA takes precedence over CPOP. Incoming calls to the subscriber with PCA and CPOP active shall be screened by the PCA feature before being considered for CPOP.

Selective Call Acceptance (SCA)

SCA takes precedence over CPOP. Incoming calls to the subscriber with SCA and CPOP active shall be screened by the SCA feature before being considered for CPOP.

Subscriber PIN Access (SPINA)

CPOP feature code requests should be denied for an MS while SPINA is active.