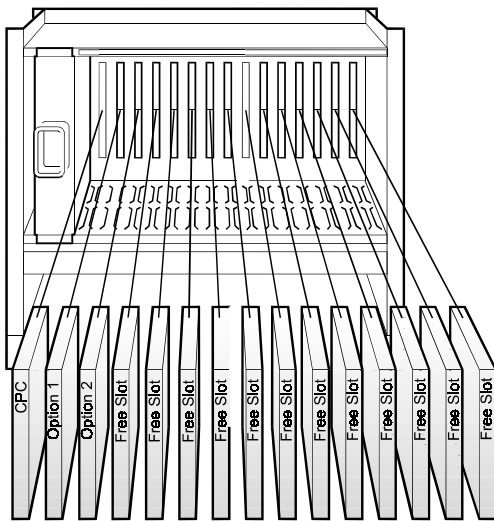




DBS 576 Version 5.01 Release Notes



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Panasonic[®]
Telecommunications Systems Company
Business Telephone Systems

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Overview

These release notes cover changes included in Version 5.01 of the DBS 576 software.

Hardware

These release notes affect the following hardware:

Part Number	Item
VB-44410	CPC-96
VB-444201	CPC-288
VB-444301	CPC-576

Change Summary

Version 5.01 Upgrade Procedure	Description of the upgrade procedure for Version 5.01 software.
QSIG Overview	Beginning with Version 5.01, Network calling features previously available only on T1 lines are now available across QSIG lines.*
QSIG: Caller ID/Name Display	Beginning with Version 5.01, Caller ID information can be seen for calls placed across QSIG lines.*
QSIG: Network Call Hold/Retrieve	Beginning with Version 5.01, calls over QSIG lines can be placed on Hold and retrieved from Hold by pressing the Network Flash key*.
QSIG: Network Call Transfer	Beginning with Version 5.01, the Network Call Transfer feature is available for calls across QSIG lines.*
QSIG: Network Hold Recall	Beginning with Version 5.01, the Network Hold Recall feature is available for calls across QSIG lines.*
QSIG: Network Transfer Recall	Beginning with Version 5.01, the Network Transfer Recall feature is available for calls across QSIG lines.*
QSIG: Network Call Forward	Beginning with Version 5.01, the Network Call Forward feature is available for calls across QSIG lines.*
QSIG: Network Call Forward ID	Beginning with Version 5.01, calls can be forwarded to Centralized Voice Mail across QSIG lines.*
QSIG: Message Wait Lamp Control	Beginning with Version 5.01, the Message Wait lamp lights when a Voice Mail message is received for that extension by Centralized Voice Mail on a QSIG network.*
QSIG: Network Message ID Sending	Beginning with Version 5.01, Voice Mail messages can be retrieved from Centralized Voice Mail across QSIG lines.*

QSIG: Network Camp-On	Beginning with Version 5.01, the Network Camp-On feature is available for calls across QSIG lines.*
Conference Call Enhancement	Beginning with Version 5.01, the Conference Call feature has been enhanced to show the status of conference members, support conferencing for up to 4 parties without the CONF card, and other enhancements.
Caller ID Enhancement #1: Caller ID Log Display	Beginning with Version 5.01, Caller ID information on the Caller ID Log display is shown in the order of calls received, with the most recent call at the top.
Caller ID Enhancement #2: Caller ID Log Display	Beginning with Version 5.01, when a call is received from an analog or ISDN trunk, the caller name is displayed in the Caller ID Log. Also, Caller ID Log entries can be deleted at an extension.
Caller ID Enhancement #3: Caller ID Key Indication of Logged Calls	Beginning with Version 5.01, the Caller ID key flashes when Caller ID information is logged because the call was not answered.
Call Duration Display	Beginning with Version 5.01, when number keys are pressed during a call, the call duration timer is replaced by a display of keys pressed, but reappears after a specified amount of time.
Reversion Display	Beginning with Version 5.01, when a call is reverted to a busy extension, the receiving telephone display shows that a reversion call has been received.
Caller Name Display on PRI	Beginning with Version 5.01, for calls originating on an ISDN PRI line, the Caller Name displays on the extension receiving the call.
Caller Name Output on SMDR	Beginning with Version 5.01, for calls originating on an ISDN line, the caller name is shown on the SMDR.
ISDN B-channel Number Print on SMDR	Beginning with Version 5.01, for calls originating on an ISDN line, the B-channel number is shown on the SMDR.
Reversion Display #2	Beginning with Version 5.01, if a transferred call is recalled to the calling extension, the extension that failed to answer the call is displayed on Line 2 of the attendant keyphone.
Hot Dial Pad	Beginning with Version 5.01, the "*" and "#" keys can be programmed as hot keys, in addition to the number keys (0-9).

* **Note:** These features are part of the Manufacturer Supplementary Service.

Change Details

Version 5.01 Upgrade Procedure

CPC-576

All previous versions of software may be upgraded to version 5.01. One PC-Card is required per system.

CPC-288 and CPC-96

All previous versions of software may be upgraded to version 5.01. Code rotary switch position 4 can be used to upgrade multiple systems with one PC-card.

Note: For more detail, refer to the "Software Upgrade Procedure" for specific CPC types in Section 400 Programming. DBS576 software on PC-Cards is specific to the CPC type (CPC-96, CPC-288, and CPC-576).

QSIG Overview

All CPCs, Version 5.01

Version 5.01 provides enhanced QSIG features to include many of the Network Facilities previously available only on T1 networks.

Programming

- **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25 Hold (0 or 1) Hold**

Settings:

BSS1: QSIG ISDN Line Position - B=Cabinet 1-6, SS=Slot 01-12, 1=Circuit 1 (PRI)
(0 or 1): 0 = disable; 1 = enable

default = 1

This value must be set to "1" to enable Manufacturer Supplementary Service features such as QSIG Network Call Hold/Retrieve.

Notes

- To connect with other manufacturer's PBX, set Manufacturer Supplementary Service to disable (0).
Version 5 QSIG features are not available for use with other manufacturer's PBX.
- The setting of "Manufacturer Supplementary Service" does not affect the availability of Caller ID and Caller Name information from the Network.

QSIG: Caller ID/Name Display

All CPCs, Version 5.01

Prior to Version 5.01, Caller ID Name/Number information was not available for calls placed over QSIG lines. Beginning with Version 5.01, when a call is placed across QSIG lines between extensions on networked DBS 576 or DBS 576HD systems, Caller ID and Caller Name information can be displayed on the receiving (target) extension. See the following detailed description.

Limitation

If an incoming DID call is sent across QSIG lines, the receiving extension does not display the DID Name.

Programming

(New) Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature.

Extension-to-Extension Calls

If a call is placed from one extension to another across QSIG lines, the caller's extension number or name appear on the display of the receiving telephone. If the receiving extension forwards the call to another extension within the same DBS 576, that telephone displays "FWD" followed by the original caller's number or name.

The caller can also use the Call Wait/Camp-On feature if the receiving extension is busy. "WAIT" followed by the caller's extension number or name appears on the 2nd line of the receiving extension telephone display.

Outside Calls to Extension

If a call is placed from a Caller ID outside (CO) line to an extension through QSIG lines, the caller's Name or Number are displayed on the receiving extension.

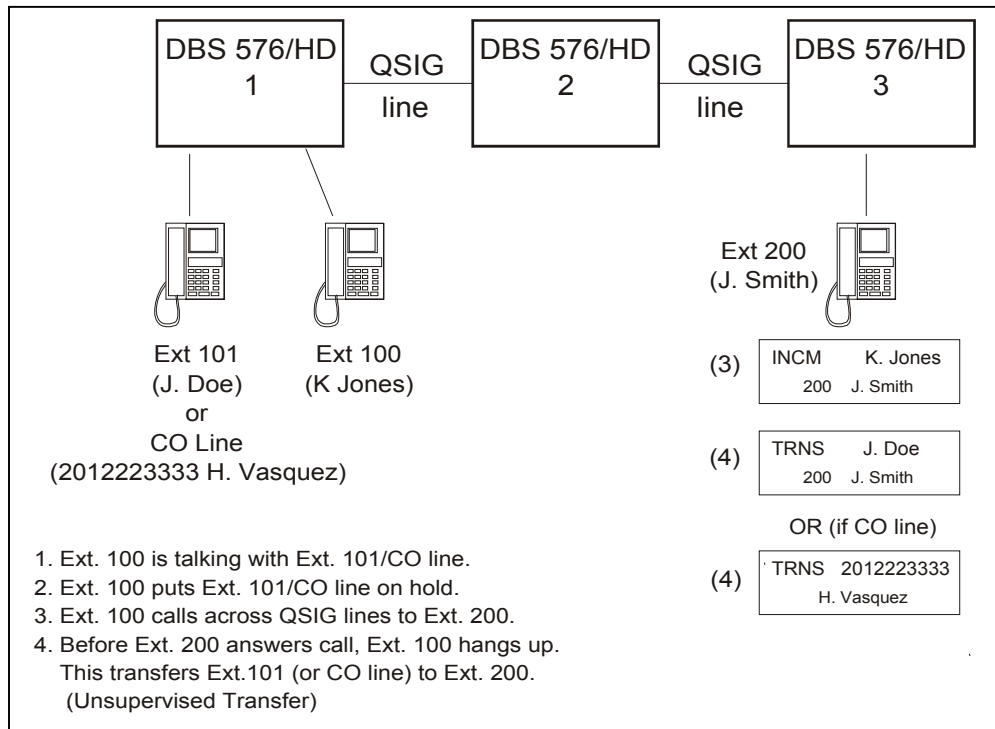
If the call is forwarded to another extension on the same DBS 576, "INCM" followed by the caller Name or Number appears on the 1st line of the receiving extension telephone display. "FWD" followed by forwarding extension number or name appears on the 2nd line.

If the receiving extension is busy, the caller can use the Call Wait/Camp-On feature. "WAIT" followed by the caller's extension number appears on the 2nd line of the receiving extension telephone display.

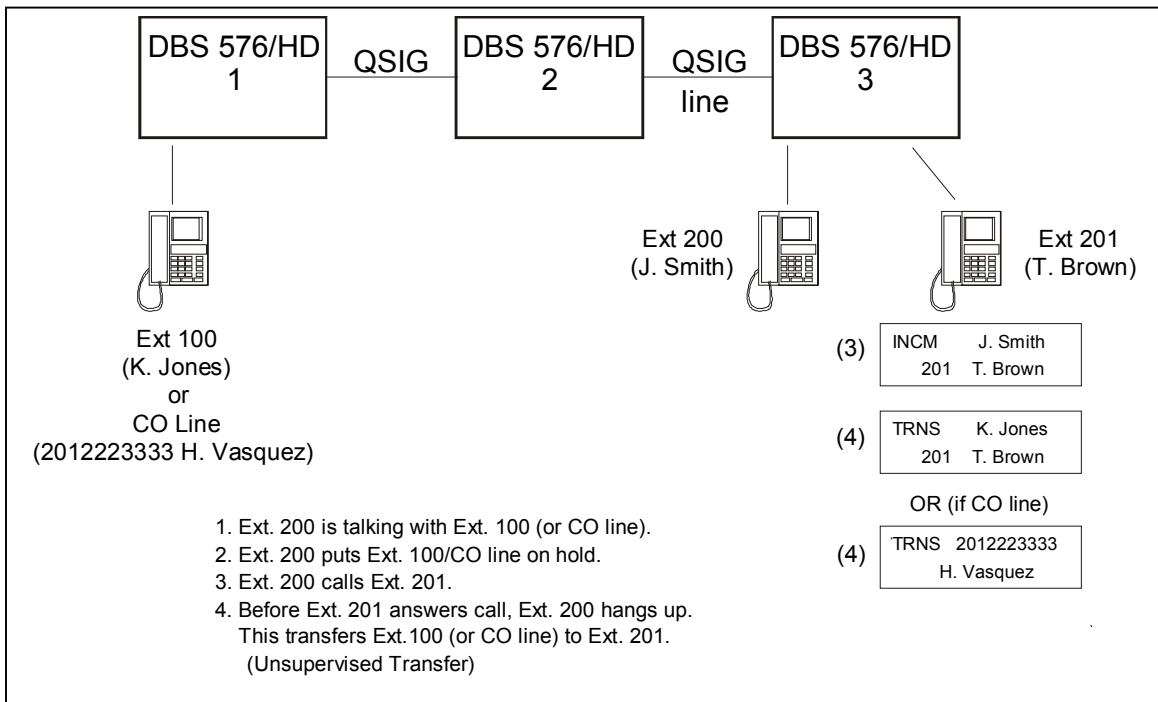
Transferred Extension-to-Extension Calls

With Version 5.01, when a call is transferred across QSIG lines, Caller ID/Name information for the transferred call, and the transferring extension, will appear on the receiving extension's telephone display. If the transferred call is:

- Another extension on the same DBS 576 as the caller: "TRNS" followed by the caller's extension number or name appears on the 1st line of the display.
- An outside (CO) line: "TRNS" followed by the callers' number or name appears on the 1st line of the display. The Caller ID Name appears the 2nd line.

Scenario 1:

Scenario 2:



Programming

Refer to Caller ID Name and Number Display: **FF1 0 01 0024**

Outside Calls to Extension; Hold and Recall

A call is placed from an outside (CO) line across QSIG lines to an extension. The receiving extension is placed on Network Hold, then goes on-hook and cuts the QSIG line. The call is then recalled to the receiving extension, which displays "RCL" followed by the Caller ID information for the caller (name or telephone number).

Transfer/Recall of Outside Calls

A call is placed from an outside (CO) line through QSIG lines to an extension. The receiving extension transfers the call across QSIG lines to another extension, but that extension does not answer the call before the Transfer Recall timer elapses. The call is recalled to the extension that originally received the call. That extension's telephone display shows:

- 1st line: "RCL" followed by the Caller ID Name or Number for the outside (CO) line
- 2nd line: "DEST" followed by the name/number for the extension that did not answer the call.

Call Display

If a call is placed from one extension across QSIG lines to another extension, when the call is answered each extension displays "TALK" on the first line, followed by the extension number or name of the other extension.

If the call was placed from an outside (CO) line, and Caller ID information is available, the receiving extension telephone display shows the elapsed time for the call on the first line, and the caller Name or Number on the second line. If no Caller ID information is available, the extension displays its own extension number on the second line of the LCD display.

Limitations

If an incoming DID call is sent across QSIG lines, the receiving extension does not display the DID caller name.

Programming

None

QSIG: Network Call Hold/Retrieve**All CPCs, Version 5.01**

On a single-DBS 576 system, a call can be placed on hold by pressing the Hold key on a digital key phone. Network Call Hold allows a call between networked DBS 576 or DBS 576HD systems to be placed on hold.

Prior to Version 5.01, only calls over T1 networks could be placed on hold, by pressing a programmed line key, MCO key, or Network Flash Key. Beginning with Version 5.01, calls over QSIG lines can be placed on hold by pressing the programmed line key, MCO key, or Network Flash Key. Only one party can place the call on hold.

For example, one DBS 576 system (PBX1) is connected to another (PBX2) across QSIG lines. A call takes place between an extension (Ext. 100) on PBX1, and an outside (CO) line accessed through PBX2. Extension 100 displays:

```
ON LINE  0:10
XXXXXXXXXXXX      XXXX = Caller ID
```

Scenario one: Ext. 100 pushes the Network Flash key (FF key) to place the call on Network Hold. Ext. 100 sounds a dial tone provided by PBX2 across the QSIG lines. The called party on the outside (CO) line hears the hold tone provided by PBX2. During Network Hold, Ext. 100 can resume the call by pressing the Network Flash key again.

Scenario two: Ext. 100 (on PBX1) pushes the Hold key to place the outside (CO) line call on Local Hold. The outside (CO) line party hears the Hold Tone provided by PBX1.

Ext. 100 dials Ext. 300 on PBX2 across the QSIG lines. The Hold is switched to Network Hold, so the outside (CO) line party now hears the Hold Tone provided by PBX2.

Limitations

1. During Network Hold, displays only show information for the calls taking place, not for calls on Hold.
2. If an SLT (PB signal system) is used to place a call on Network Hold, the system ignores any attempts to dial another number from the SLT.
3. The features described above do not apply if the call is placed across a T1 and a QSIG line.

Programming

1. **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).
2. Program setting **FF1 0 02 0026**: (Closed Number Dialing During Network Line Hold) must be set to "1" in order for this feature to function.

QSIG: Network Call Transfer

All CPCs, Version 5.01

Network Call Transfer allows a call to be transferred from one extension to another between networked DBS 576 or DBS 576HDs via the best routing method.

Prior to Version 5.01, this feature was not available across QSIG lines. With Version 5.01, calls can be transferred across QSIG lines via the best routing method.

When a call across QSIG lines between an extension and an outside (CO) line is placed on Network Hold, the outside (CO) line caller can be transferred to a different extension using an unsupervised transfer (the transferring extension hangs up before the call is answered).

Limitations

1. If an SLT (PB signal type) is used to place a call on Network Hold, the system ignores any attempts to dial another number from the SLT.
2. If Network Call Hold Transfer is used across a QSIG and Analog TIE line (includes T1 line) network, two lines are used.

Programming

1. **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).
2. Program setting **FF1 0 02 0026**: (Closed Number Dialing During Network Line Hold) must be set to "1" in order for this feature to function.

QSIG: Network Hold Recall

All CPCs, Version 5.01

Network Hold recall is identical to Hold Recall, except that the call is between networked DBS 576 or DBS 576HD systems. Prior to Version 5.01, calls placed over a QSIG network could not be recalled. With Version 5.01, this feature is now available on QSIG networks. See the following description.

When a user places a QSIG network call on Network Hold, and then disconnects, the QSIG call is immediately recalled to the caller's extension, and the caller is reminded of the caller on hold.

Limitations

1. If QSIG and T1 lines are intermingled in a network, Network Hold Recall cannot be used. Attendant Reversion takes place over the DBS 576 or DBS 576HD line (QSIG) in use.
2. If an outside line is on Hold, and the Hold Recall ringing timer expires, Attendant Reversion takes place in the DBS 576 or DBS 576HD that has the call on hold. Network Attendant Reversion cannot be used.
3. If a call from an extension is placed on Network Hold, Hold Recall cannot be used. When the QSIG line is disconnected, the extension is disconnected.
4. When Network Hold Recall takes place for a QSIG network call, a new line may be seized.
5. When Network Hold Recall occurs, if all ISDN line (QSIG) lines are busy, the system will attempt to seize the line at 5 second intervals until an idle ISDN line becomes available.
6. When Network Hold Recall takes place over an ISDN line (QSIG), and the outbound call fails because of a collision between the outbound and incoming call, Attendant Reversion takes place if the call on hold is an outside line. If the call on hold is an extension, the line is disconnected.

Programming

- **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).

QSIG: Network Transfer Recall

All CPCs, Version 5.01

When a call is transferred between extensions across network lines, but the call is not answered, the Transfer Recall feature sends the call back (recalls the call) to the original receiving extension.

Prior to Version 5.01, this feature was only available for T1 networked systems. With Version 5.01, this feature is available for QSIG networks.

Limitations

1. If QSIG and T1 lines are intermingled in a network, Network Transfer Recall cannot be used. Attendant Reversion takes place over the DBS 576 or DBS 576HD line (QSIG) in use.
2. If the extension does not answer the Network Transfer Recall before the Transfer Recall timer expires, Attendant Reversion takes place in the DBS 576 or DBS 576HD that is holding the call. Network Attendant Reversion cannot be used.
3. If a call from an extension is placed on Network Hold, Transfer Recall will not take place. After the Transfer Recall timer expires, the line is disconnected.
4. When Network Transfer Recall takes place over a QSIG network, a new line is seized.
5. When Network Transfer Recall occurs, if all ISDN (QSIG) lines are busy, the system will attempt to seize the line at 5 second intervals until an idle ISDN line becomes available.
Note: This specification applies to Recall queuing or to retries after a fixed time.
6. When Network Transfer Recall takes place over an ISDN line (QSIG), and the outbound call fails because of a collision between the outbound and incoming call, Attendant Reversion takes place if the call on hold is an outside line. If the call on hold is an extension, the line is disconnected.

Programming

- **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).

QSIG: Network Call Forward

All CPCs, Version 5.01

Call Forwarding allows a received call to be sent to another extension, to an outside (CO) line, or to Voice Mail. Network Call Forward allows Call Forwarding between networked DBS 576 or DBS 576HD systems via the best routing method (no trombone connection).

Prior to Version 5.01, this feature was only available across T1 networks. With Version 5.01, this feature is now available across QSIG lines.

Limitations

1. The Manufacturer Supplementary Service program setting (**FF2 1 BSS1 03 25**) must be set to 1 for each DBS 576 or DBS 576HD on the network.
2. When Network Call Forward takes place, if the Call Forward destination unit does not answer the call, the results vary according to the ring type: DIL, DID, or DISA.
The action that occurs when the No Answer time has expired can be set for each ring type through programming.
3. If an analog TIE line (includes T1 line) and a QSIG line are intermingled, a second line is seized for Network Call Forwarding (trombone connection).

Programming

- **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).

QSIG: Network Call Forward ID

All CPCs, Version 5.01

When a call is forwarded to Voice Mail, the Voice Mail ID entered determines which Voice Mail mailbox the call is sent to. Network Call Forwarding applies this feature to Centralized Voice Mail, in which all Voice Mail for multiple networked DBS 576 or DBS 576HDs is managed and stored at one DBS 576 or DBS 576HD (node). This means that each user's unique Voice Mail ID can be transmitted across the network.

Prior to Version 5.01, this feature was only available for T1 networks. With Version 5.01, this feature is now available across QSIG lines.

Limitations

1. The Manufacturer Supplementary Service program setting **FF2 1 BSS1 03 25** must be set to 1 for each DBS 576 or DBS 576HD on the network.
2. If an analog TIE line (included T1 line) and a QSIG line are intermingled, a second line is seized for Network Call Forwarding (trombone connection).

Programming

- **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).

QSIG: Message Wait Lamp Control

All CPCs, Version 5.01

The Message Wait Lamp is the lamp on a key telephone that lights when there is a message in that extension's Voice Mailbox. This feature also applies to Centralized Voice Mail, in which all Voice Mail for multiple networked DBS 576 or DBS 576HDs is managed and stored at one DBS 576 or DBS 576HD (node).

Prior to Version 5.01, the Message Wait Lamp feature for Centralized Voice Mail was only available on T1 networks. With Version 5.01, this feature is also available across QSIG lines.

Limitations

None

Programming

- **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).

QSIG: Network Message ID Sending

All CPCs, Version 5.01

To retrieve a Voice Mail message from a Centralized Voice Mail system, the MSG or MSG/VM key must be pressed. That extension's Message ID is then sent across the network to the Voice Mail system, and the requested message is sent back to the extension across the network.

Prior to Version 5.01, this feature was only available on T1 networks. With Version 5.01, Voice Mail messages can be retrieved from Centralized Voice Mail across QSIG lines.

Limitations

None

Programming

- **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).

QSIG: Network Camp-On

All CPCs, Version 5.01

Camp-On / Call Waiting is the feature that allows a caller who has called a busy extension to send a Call Waiting signal to the other extension, and then remain on the line until the other party answers.

This can be done by simply staying on the line until the call is answered, or by entering the Call Waiting code after the busy tone is heard, and then staying on the line until the call is answered. When the called party ends their current call, the Camp-On call becomes the regular incoming call.

Network Camp-On works the same way, but the two extensions are on different networked DBS 576 or DBS 576HD systems.

Prior to Version 5.01, Network Camp-On was only available on T1 networks. With Version 5.01, this feature is now available when the DBS 576 or DBS 576HD systems are connected across QSIG lines.

Limitations

1. The Camp-On feature can only be used when calling an extension.
2. The Camp-On feature is not available if En bloc sending is used. (See **FF2 1 BSSC 03 22** setting).
3. The Camp-On feature is not available if Camp-On for Tie Lines is restricted. (See **FF1 0 04 (00-15) 12** setting.)

Programming

1. **(New)** Manufacturer Supplementary Service: **FF2 1 BSS1 03 25** must be set to "1" to enable this feature (see QSIG Overview on page 3).
2. En Bloc/Overlap Digit Send: **FF2 1 BSSC 03 22 Hold (0 or 1) Hold**
Settings:
0 = En bloc sending - all digits at once; 1 = Overlap sending - send each digit as it is dialed
default = 1
To properly use this feature, set this programming address to "1" for Overlap sending.
3. Restriction for Camp-on from Tie Line: **FF1 0 04 (00-15) 12**
Settings:
0 = Enable Camp-On on this Tie Line; 1 = Disable Camp-On on this Tie Line
To properly use this feature, set this programming address to "0" (not restricted).

Conference Call Enhancements

All CPCs, Version 5.01

A conference call is a call between more than two parties, set up by a "conference originator" extension.

With Version 5.01, this feature has been enhanced in the following areas:

1. FF key LEDs on the conference originator's telephone indicate each conference call member when they are added to the conference.
2. FF key LEDs on the conference originator's telephone indicate the hold status of each conference call member while the conference is on Hold.
3. FF keys on the conference originator's telephone can be used to establish a private conversation during a conference call.
4. Conference Hold Recall Timer (new) replaces Hold Recall Timer during Conference Hold.
5. Hold key used to send Hold tone to conference members; DN key used to establish an Unsupervised Conference.
6. 4-party conference calls supported by the CPC w/out CONF card.

See the following table for details:

Conference Calls - Prior to Version 5.01	Conference Calls - With Version 5.01
<p>(1) When a conference call is established, the conference originator's telephone does not show the status of each conference member.</p> <ul style="list-style-type: none"> • As each new extension or outside (CO) line is brought into the conference call, the corresponding FF key (DN key or CO key only) is extinguished. • The EXT lamp lights with a steady light. 	<p>(1) When a conference call is established, the conference originator's telephone shows the status of each conference member.</p> <ul style="list-style-type: none"> • As each new extension or outside (CO) line is brought into the conference call, the FF key (DN key or CO key only) assigned to that party lights with a steady green light. • The EXT lamp lights with a steady light.
<p>(2) When a conference call is placed on hold, the Hold status is indicated on the conference originator's telephone.</p> <ul style="list-style-type: none"> • The EXT lamp shows a blinking light. 	<p>(2) When a conference call is placed on hold, the Hold status is indicated on the conference originator's telephone.</p> <ul style="list-style-type: none"> • the FF key (DN or CO key only) assigned to each conferenced party shows a blinking green light. • The EXT lamp shows a blinking light.
<p>(3) To establish a two-party (private) conversation with a conference member, the conference originator must press the CONF key + <i>n</i> (number key for that party).</p>	<p>(3) To establish a two-party (private) conversation with a conference member, the conference originator can place all parties on hold by pressing the HOLD key, then press the FF key (DN or CO key only) for that member.</p>

Conference Calls - Prior to Version 5.01	Conference Calls - With Version 5.01
<p>(4) After the conference originator places the conference on hold (Conference Hold), the conference remains on hold:</p> <ul style="list-style-type: none"> • Until the conference call ends (only one other conference member remains). The call is then placed on ordinary Hold. • Until the time set for the Hold Recall Start Timer: FF1 1 04 0001 (Digital Keyphones - default 120 sec.) or FF1 1 04 0002 (Attendant Group - default 20 seconds) expires. At that point the call recalls to the holding extension or to an attendant phone. 	<p>(4) After the conference originator places the conference on hold (Conference Hold), the conference remains on hold:</p> <ul style="list-style-type: none"> • Until the conference call ends (only one other conference member remains). The call is then placed on ordinary Hold. • Until taken off hold or disconnected manually, if the Conference Hold Recall Timer: FF1 1 04 0021 (new) is set to 0 minutes. • Until the time set for the Conference Hold Recall Timer : FF1 1 04 0021 (new - default 9 minutes) expires. At that point the call recalls to the holding extension and the DN key assigned to that extension shows blinking green (RCL CONF is shown on the display). <ul style="list-style-type: none"> • If the recall is not answered within a fixed time, the conference call ends: <ul style="list-style-type: none"> > all outside (CO) lines are cut from the conference and disconnected. > all extensions are cut from the conference and are placed on ordinary Hold.
<p>(5.1) When the conference originator puts the conference call on Conference Hold,</p> <ul style="list-style-type: none"> • Conference members hear a Hold tone (or MOH), and conference members can talk to each other without the conference originator (an Unsupervised Conference). 	<p>(5.1) When the conference originator puts the conference call on Conference Hold,</p> <ul style="list-style-type: none"> • All other conference members hear a Hold tone (or MOH), if the new program setting FF1 0 01 0033 (Conference Hold Tone) is set to 0. • Conference members can talk to each other, without the conference originator (an Unsupervised Conference), if: <ul style="list-style-type: none"> • the new program setting FF1 0 01 0033 (Conference Hold Tone) is set to 1 (talk), AND. • the (new) program setting FF1 0 03 nn66 (Unsupervised Conference) is set to "0" for the Extension Class of Service (COS) of each conference member.
<p>(5.2) Pressing the DN (Directory Number) key for a party during a conference call has no effect.</p> <p>Note: There is no DN appearance during a conference call.</p>	<p>(5.2) Pressing a DN (Directory Number) key during a conference call allows conference members to talk to each other without the conference originator. This is an Unsupervised Conference.</p> <p>(5.2.1) To use this feature, the (new) program setting Unsupervised Conference FF1 0 03 nn66 must be set to "0" for the Extension Class of Service of each conference member.</p>

Conference Calls - Prior to Version 5.01	Conference Calls - With Version 5.01
<p>(6) The DBS 576 system CPC supports a conference call with up to 3 parties, with any combinations of extensions or outside (CO) lines.</p> <p>Conference calls with 4-8 parties require the installation of a CONF card.</p>	<p>(6) The DBS 576 system CPC supports a conference call with up to 4 parties, with any combinations of extensions or outside (CO) lines.</p> <p>Conference calls with 5-8 parties require the installation of a CONF card.</p> <p>The setting of program address FF1 0 01 0005 determines whether a 4-party conference call is managed by the CPC or by the CONF card (8-party conference unit):</p> <ul style="list-style-type: none"> • If set to "1" (Recurring splash tone), the CONF card is used automatically when the 4th party is added to a conference call. • If set to "0" (No splash tone - default) the CPC manages a 4-party conference call.

Limitations of Conference Call feature with Version 5.01

1. During a conference call, the extension (EXT) lamp lights on the conference originator's telephone.
2. When the conference call is placed on Conference Hold, the EXT lamp blinks on the conference originator's telephone.
3. When the conference originator adds an extension or outside line to the conference, the MCO key or VL (Virtual Line) key assigned to that party is turned off.
4. During a conference call hold, the held conference members cannot use the HOLD key. Pressing the key has no effect.
5. Conference Hold is an Exclusive Hold (only the conference originator can retrieve the conference).
6. Conference Hold cannot be transferred.
7. Conference members that do not have an appearance indication (FF key) on the conference originator's telephone cannot be released from the conference.
8. If any conference member (with the exception of the conference originator) shifts to the conference call, that conference member is not indicated with an FF key (with the exception of a CO key).
9. Camp-on cannot be registered to an extension that is in a conference or is on Conference Hold.

Programming

1. **(New) Conference Hold Recall Timer: FF1 1 04 0021 Hold (0-255) Hold**
Settings: (0-255) = minutes
0 = No recall, hold indefinitely; 1-255 = Number of minutes before recall: **default = 9**
2. **(New) Hold Key at Conference Talk Status: FF1 0 01 0033 Hold (0 or 1) Hold**
Settings: (0 or 1)
0 = Hold tone; 1 = No tone : **default = 0**
3. **(New) Unsupervised Conference: FF1 0 03 nn66 Hold (0 or 1) Hold**
Settings: nn: 00-15 = Extension Class of Service numbers 1-16);
(0 or 1): 0 = allow; 1 = do not allow: **default = 1**
4. **Splash Tone: 3-Party Conference: FF1 0 01 0005 Hold (0 or 1) Hold**
Settings: (0 or 1): 0 = No splash tone, 1 = Recurring splash tone is heard during a 3-Party Conference: **default = 0**

Caller ID Enhancement #1: Caller ID Log Display**All CPCs, Version 5.01**

Prior to Version 5.01, Caller ID information was displayed in order in the Caller ID Log display, with the oldest call appearing at the top of the display.

With Version 5.01, Caller ID Name/Number information is displayed in order, with the most recent call appearing at the top of the display.

With Version 5.01, if a call is received while the Caller ID Log is being displayed, that call is not shown in the Caller ID log until the next time the log is displayed (Call Logging Confirmation Mode is entered).

Limitations

None

Programming

None

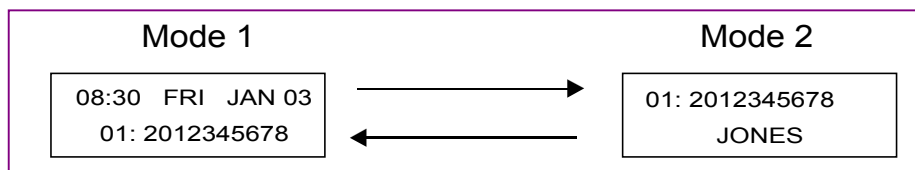
Caller ID Enhancement #2: Caller ID Log Display**All CPCs, Version 5.01**

Prior to Version 5.01,

1. When a call was received from an analog or ISDN trunk, the caller name (if available) was not displayed in the Caller ID Log.
2. Caller ID Log entries could not be deleted at an extension.

With Version 5.01,

1. When a call is received from an analog or ISDN trunk, the caller name (if available) is displayed in the Caller ID Log.
2. Caller ID Log entries (all entries) can be deleted at an extension by pressing the CONF key while viewing the Caller ID Log.
3. Pressing the HOLD key while viewing the Caller ID Log changes the display mode (Mode 1 to Mode 2 / Mode 2 to Mode 1). This only affects the 1st and 2nd lines of the LCD display.



Line 1: Time and date call was received
Line 2: Log number and caller number

Line 1: Log number and caller number
Line 2: Caller name (if available)

Limitations

None

Programming

None

Caller ID Enhancement #3: Caller ID Key Indication of Logged Calls

All CPCs, Version 5.01

Prior to Version 5.01, when Caller ID information is logged because the call was not answered (Busy/No Answer/CFWD/Hunting), the Caller ID key would not flash. With Version 5.01, the Caller ID key (assigned by programming) flashes when Caller ID information is received.

Limitations

- When a call containing Caller ID information is answered, the Caller ID key does not flash.

Programming

None

Call Duration Display

All CPCs, Version 5.01

Prior to Version 5.01, if additional digits were dialed during a call with an outside party, the call duration time display would disappear, and the digits pressed would be displayed. After this occurred, the call duration time would not reappear.

With Version 5.01, if the time lapse between the pressing of digit keys exceeds the time set in the Call Duration Display Timer **FF1 1 03 0017**, the display automatically returns to show the total calling time.

Limitations

1. Account code input will be displayed until the end code "#" is entered. After that, the call duration will be displayed again.
2. If the key telephone is programmed for clock display, the call duration is not displayed and the Call Duration Display Timer setting has no effect.

Programming

- **(New)** Call Duration Display Timer **FF1 1 03 0017 Hold (0-255) Hold**

Settings: (0-255) = seconds

0 = display does not return to calling time duration; 1-255 = seconds before display returns to calling time: **default = 10**

Reversion Display on 2nd LCD

All CPCs, Version 5.01

Prior to Version 5.01, when a call was reverted to a busy extension in the attendant group (all attendants were busy), the 2nd line of the receiving extension telephone display showed "WAIT" followed by the caller's number or name. With Version 5.01, when a call is reverted to a busy extension in the attendant group (all attendants are busy), the 2nd line of the receiving extension telephone display shows "RVRS" followed by the caller's number or name.

Limitations

1. An incoming call reversion can be answered when the receiving extension is off-hook.
2. Off-hook signaling to multi-line and BLF keys does not apply when a call reversion is received while the extension is off-hook.

Programming

None

Caller Name Display on PRI

All CPCs, Version 5.01

Prior to Version 5.01, when a call was received from an ISDN PRI line, the caller name was not displayed. With Version 5.01, when a call is received from an ISDN PRI line, the caller name (if available) is displayed at the receiving extension.

Limitations

- The Caller Name is only displayed on PRI lines that meet the US ISDN / PRI NI II standards. (example: does not work with BRI or PRI/Custom lines).

Programming

None

Caller Name Output on SMDR

All CPCs, Version 5.01

SMDR (Station Message Detail Reporting) is the feature in which a detailed record of all outgoing, or outgoing and incoming, calls is printed to a serial printer connected to the RS232C port.

Prior to Version 5.01, when an analog Caller ID call was received, the caller name was not shown on the SMDR record. With Version 5.01, the caller name is shown on the SMDR record.

Limitations

- Caller Name display is limited to 12 characters.

Programming

- **(New) Caller Name Output on SMDR: FF1 0 09 0003 Hold (0 or 1) Hold**
Settings: (0 or 1)
0 = no Caller Name output; 1 = output: **default = 1**

ISDN B-channel Number Print on SMDR

All CPCs, Version 5.01

SMDR (Station Message Detail Reporting) is the feature in which a detailed record of all outgoing, or outgoing and incoming calls is printed to a serial printer connected to the RS232C port.

Prior to Version 5.01, if an outside call originated on an ISDN line, the B channel number of the originating call would not be shown on the SMDR record.

With Version 5.01, a new SMDR format (Format #3) has been added, which prints the ISDN B channel number only.

Limitations

1. When a call is received from a non-ISDN line, the B channel entry is blank on the SMDR.
2. When a call is received from a H0(6B) / H1(24B,30B) ISDN line, the B channel is not shown on the SMDR.

Programming

- SMDR Format: **FF1 0 09 001 Hold (0-3) Hold**
Settings: (0-3)
0 = no SMDR output; 1 = Format #1, 2 = Format #2, 3 = Format #3 (**new**): **default = 1**

Reversion Display #2

All CPCs, Version 5.01

Attendant Reversion occurs when an extension does not answer a transfer recall, and the call is reversed to an attendant phone.

Prior to Version 5.01, the attendant phone would not display the extension number that failed to answer the call. With Version 5.01, the attendant phone shows 2 lines of information: Line 1 shows the original caller number/identification, and Line 2 shows "DEST" followed by the extension from which the call was reverted.

Limitations

- If a call reversion is received when the extension is off-hook, DEST information cannot be displayed on the 2nd line of the LCD. When the extension is placed on-hook, the DEST information displays.

Programming

None

Hot Dial Pad

All CPCs, Version 5.01

Hot Dial Pad allows a call to be initiated without going off hook, by pressing keys on the telephone keypad. These keys (selected by programming) are called "Hot Keys".

Prior to Version 5.01, only the numeric keys (0-9) could be programmed as hot keys.

With Version 5.01, the "*" and "#" keys can also be hot keys, if **FF1 0 01 0034** (new) is set to 1.

Limitations

None

Programming

- **(new) */# Hot Dial Pad: FF1 0 01 0034 Hold (0 or 1) Hold**
Settings: (0 or 1)
0 = disable; 1 = enable (make * and # available as hot keys): **default = 0**