

DCS 6000 Digital Conferencing Microphone Operating Modes

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Description

The DIS DCS 6000 digital conferencing system can operate in a number of different operating modes.

- Automatic; Push-to-talk with or without override
- FIFO; Push-to-talk with request-to-speak queue
- Manual; Operator Controlled
- VOX; Voice Activated

These operating modes together with different levels of priority per delegate offer a lot of possibility to customize the conferencing system according to the user's needs. This document shows you how to configure the DCS 6000 system to produce the most common operating modes.

Note: The CDS 4000 Discussion system offers the Automatic, FIFO and Manual modes. For more information please refer to the CDS 4000 Discussion Microphone Operating Modes Tech Note.

AUTOMATIC; Push-to-talk without request-to-speak queue

In this mode, delegates activate their microphone with the microphone button on their conference unit. If the maximum number of **open delegate microphones** is reached the next **delegate** that presses his/her microphone button will not be able to activate the microphone since the speakers list is full.

Chair persons can still activate their microphones as long as the maximum number of **open microphones** is not reached. When the maximum number of open microphones is reached, the next chair person that activates his/her microphone will deactivate the delegate unit that has been active the longest.

Note: The maximum number of open delegates and open microphones can be configured with a maximum of 8.

Setting the operating mode

1. Press the menu button
2. Select the "Delegate setup" menu
3. Select the "Operating Mode" menu
4. Set the "Operating Mode:" option to "Auto"
5. Set the "Interrupt:" option to "Lower"

Set NOM:

6. Press the menu button
7. Select the "Delegate setup" menu
8. Select the "Max Speakers" menu
9. Use the "Max Del. Speakers:" option to set the maximum number of delegates that can speak at the same time based on the end-user's needs. A number between 2 and 4 is typical.
10. Use the "Max Total Speakers:" option to set the maximum number of active microphones. Recommended is eight so a chair person activating his/her microphone will not unintentionally cut off a delegate. Reverberation or acoustic feedback could be a reason to choose a lower Number of Open Microphones.

AUTOMATIC; Push-to-talk with OVERRIDE

In this mode, delegates activate their microphone with the microphone button on their conference unit. If the maximum number of **open delegates** is reached the next **delegate** that presses his/her microphone button will override and replace the delegate whose microphone has been active the longest.

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Chair persons can still activate their microphones as long as the maximum number of **open microphones** is not reached. When the maximum number of **open microphones** is reached, the next chairperson that activates his/her microphone will deactivate the delegate unit that has been active the longest.

Setting the operating mode

1. Press the menu button
2. Select the "Delegate setup" menu
3. Select the "Operating Mode" menu
4. Set the "Operating Mode:" option to "Auto"
5. Set the "Interrupt:" option to "Lower+Same"

Set NOM:

6. Press the menu button
7. Select the "Delegate setup" menu
8. Select the "Max Speakers" menu
9. Use the "Max Del. Speakers:" option to set the maximum number of delegates that can speak at the same time based on the end-user's needs. A number between 2 and 4 is typical.
10. Use the "Max Total Speakers:" option to set the maximum number of active microphones. Recommended is eight so a chair person activating his/her microphone will not unintentionally cut off a delegate. Reverberation or acoustic feedback could be a reason to choose a lower Number of Open Microphones.

FIFO; Push-to-talk with request-to-speak queue

In this mode, delegates activate their microphone with the microphone button on their conference unit. If the maximum number of open delegates is reached the next delegate that presses his/her microphone button will not activate the microphone but will be put in the request-to-speak queue.

Chair persons can still activate their microphones as long as the maximum number of open microphones is not reached. When the maximum number of open microphones is reached, the next chairperson that activates his microphone will deactivate the delegate unit that has been active the longest.

Setting the operating mode

1. Press the menu button
2. Select the "Delegate setup" menu
3. Select the "Operating Mode" menu
4. Set the "Operating Mode:" option to "Fifo"
5. Set the "Interrupt:" option to "Lower"

Set NOM & Requests:

6. Press the menu button
7. Select the "Delegate setup" menu
8. Select the "Max Speakers" menu
9. Use the "Max Del. Speakers:" option to set the maximum number of delegates that can speak at the same time based on the end-user's needs. A number between 2 and 4 is typical.
10. Use the "Max Total Speakers:" option to set the maximum number of active microphones. Recommended is eight so a chair person activating his/her microphone will not unintentionally cut off a delegate. Reverberation or acoustic feedback could be a reason to choose a lower Number of Open Microphones.
11. Select the "Max Requests" menu
12. Use the "Max Requests:" option to set the maximum number of delegates that can be in the request-to-speak queue at one time. A number of 10 or so is typical.

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MANUAL; Operator Control operation

Operator Control means that the delegate cannot control his/her own microphone with the microphone button. One or multiple conference operators, ie the secretary, technician or chair person can control the delegate units via a PC or 3rd party control device such as AMX or Crestron.

In this mode, if a delegate presses his/her microphone button the delegate unit will be entered in the request-to-speak queue which is indicated with a green led on the microphone button. The operator then activates the microphone. Depending on the system configuration, delegates will or will not be allowed to switch off their microphone and will or will not be allowed to remove themselves from the request-to-speak queue.

Chair persons can still activate their own microphones with the microphone button as long as the maximum number of open microphones is not reached. When the maximum number of open microphones is reached, the next chair person that activates his/her microphone will deactivate the delegate unit that has been active the longest.

Setting the operating mode

1. Press the menu button
2. Select the "Delegate setup" menu
3. Select the "Operating Mode" menu
4. Set the "Operating Mode:" option to "Manual"
5. Set the "Interrupt:" option to "Lower"

Set NOM & Requests:

6. Press the menu button
7. Select the "Delegate setup" menu
8. Select the "Max Speakers" menu
9. Use the "Max Del. Speakers:" option to set the maximum number of delegates that can speak at the same time based on the end-user's needs. A number between 2 and 4 is typical.
10. Use the "Max Total Speakers:" option to set the maximum number of active microphones. Recommended is eight so a chair person activating his/her microphone will not unintentionally cut off a delegate. Reverberation or acoustic feedback could be a reason to choose a lower Number of Open Microphones.
11. Select the "Max Requests" menu
12. Use the "Max Requests:" option to set the maximum number of delegates that can be in the request-to-speak queue at one time. A number of 10 or so is typical.

VOX; Voice Activation Mode

Voice Activation Mode means that the delegate and chair person microphones are automatically switched on when the person starts speaking. Once a microphone is properly triggered it will stay on for the duration that the participant speaks and for a few seconds afterwards.

In VOX operation participants can still switch off their microphone with the microphone button. If the participant keeps the microphone button depressed the delegate unit remains muted to accommodate a sidebar conversation.

The Red microphone ring will still light up when the microphone is active and the same rules with regards to number of open microphones apply as in the FIFO, AUTOMATIC and MANUAL mode. Delegates that trigger their microphones are added to the speakers list as long as the "Max Del Number" is not reached. Once the maximum delegate number is reached, two options are available. Either the next delegate that tries to trigger his microphone will not be successful or the next delegate will bump the delegate unit that has been active the longest from the speakers list.

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Even though the delegate list can be full, chair persons can still trigger their microphones as long as the maximum number of open microphones is not reached. When the maximum number of open microphones is reached, the next chair person that activates his/her microphone will deactivate the delegate unit that has been active the longest.

Setting the operating mode

1. Press the menu button
2. Select the "Delegate setup" menu
3. Select the "Operating Mode" menu
4. Set the "Operating Mode:" option to "Vox"
5. Option #1: For operation that once the maximum number of delegates is reached the next delegate will not be able to trigger his microphone, set the "Interrupt:" option to "Lower"

Option #2: For operation that once the maximum number of delegates is reached the next delegate by triggering his/her microphone will override the delegate that has been active the longest, set the "Interrupt:" option to "Lower+Same". This option is recommended.

Configure the voice activation trigger threshold and release time.

6. Press the menu button
7. Select the "Delegate setup" menu
8. Select the "Voice Detection" menu
9. Select a "Threshold" level between 0 and 5 that will strike the right balance between being sensitive enough to be triggered by soft-spoken delegates but not so sensitive that the microphone will be triggered by ambient noise
10. Select a "Release Time" between 1 and 10 that will strike the right balance between being switched off when the participants stops speaking but remaining active during a pause between sentences.

Set NOM:

11. Press the menu button
12. Select the "Delegate setup" menu
13. Select the "Max Speakers" menu
14. Use the "Max Del. Speakers:" option to set the maximum number of delegates that can speak at the same time based on the end-user's needs. A number between 2 and 4 is typical.
15. Use the "Max Total Speakers:" option to set the maximum number of active microphones. Recommended is eight so a chair person activating his/her microphone will not unintentionally cut off a delegate. Reverberation or acoustic feedback could be a reason to choose a lower Number of Open Microphones.