

Technical Bulletin

Using TNCS with Continuum Model 9825 Out of Chassis Backup

Overview

This addendum applies to Scientific-Atlanta customers who use TNCS to monitor and backup Continuum products. This document will describe how to configure TNCS to backup model 9820/21 modulators, 9860 upconvertors, and model 9890 stereo encoders with model 9825 modulators located in a separate chassis (out of chassis backup). It is not possible to use Model 9820 modulators to backup the newer model 9825 modulators.

Introduction

This addendum is a supplement of the TNCS Software User's Guide. (P/N 730201) It is necessary to be familiar with the TNCS software User's guide and Appendix F before using this addendum.

Only backup scripts which use model 9825 modulators as the backup are described in this document. For other backup scripts, refer to the TNCS software user's guide. As with all backup scripts, the user must select the parameters that will be used to initiate the backup process. This is done by right clicking on the desired device parameter and selecting "backup on alarm". Specific information concerning the designated backup device, the script to be used during backup and the priority of this device in the backup scheme also needs to be entered on the device detail screen.

TNCS can automatically restore service to the original device once the alarm is cleared by entering a restore script in the RESTORE SCRIPT field on the device details screen. The restore script will have the same file name as the backup script except for the prefix. (res is substituted for bu) If manual backup is preferred, leave the RESTORE SCRIPT field empty.

This addendum provides TNCS administrators with the following information:

1. List of the Continuum backup scripts available using TNCS.
2. Configuring TNCS for 9825 backup of 9825.
3. Configuring TNCS for 9825 backup of 9820/21 and 9890.
4. Configuring TNCS for 9825 backup of 9890.
5. Configuring TNCS for 9825 backup of 9820/21.
6. Configuring TNCS for 9825 backup of 9860/61.
7. Matrix of all possible Continuum backups supported by TNCS

Requirements:

1. TNCS Version 1.6.1 Service Pack 5
2. Continuum Model 9811 or 9814 controller
3. Model 9825 modulator

List of Scripts available for Continuum backup

Backup Script	Description
Bu9820_2.txt	Backup 9825 device with a 9825 device
Bu9820_3.txt	Backup 9820/21 and 9890 devices with a 9825 device
Bu9820_3m.txt	Backup 9820/21 device with a 9825 device
Bu9890_2.txt	Backup 9890 device with a 9825 device
Bu9860_2.txt	Backup 9860/61 device with a 9825 device
Bu9860.txt	Backup 9860/61 device with a 9860/61 device
Bu9820.txt	Backup 9820/21 device with a 9820/21 device
Bu9820_ms.txt	Backup 9820/21 device with a 9820/21 and 9890 device
Bu9890.txt	Backup 9890 device with a 9890 device

Setup of TNCS

1. Configuring TNCS for 9825 backup of 9825

This script (9820_2.txt) is used to provide out of chassis backup of a 9825 modulator to a 9825 modulator. In the backup section of the TNCS detail screen of the device to be backed up, set the backup variables as shown.

Parameter	Value
Backup State	Inactive
Backup Mode	Automatic
Restore Mode	Automatic
Backup Priority	See note 1
Backup Device	See note 2
Backup Script	Bu9820_2.txt
Restore Script	Res9820_2.txt
Linked to device 1	
Linked to device 2	
Linked to device 3	
Device is backup	Read only
Backup State Counter	Read only
Backup Test Mode	Normal
Chassis Backup Priority	None
Pickup from Bus	Inactive
Backup BTSC Encoder	

Note 1 Enter the backup priority of the device. Valid entries are 1 to 99.

Note 2 Enter the unique name of the backup device. Refer to the TNCS manual for more information on backup device names.

The 9820_2 backup script performs the following procedure. When an alarm that has been flagged for backup occurs on the 9825 module, the backup script is initiated. The backup script reads the configuration settings from the device in alarm and copies it to the Backup device. After the configuration settings have been copied, the script commands the 9825 module in alarm to offline mode. Next the script commands the primary device to drop its input to bus. The backup device is then commanded to go online.

2. Backup 9820/21 and 9890 devices with a 9825 device \

Backup 9890 device with a 9825 device

This script (9820_3.txt) is used in combination with script 9890_2 to provide out of chassis backup for the 9820/21 and 9890 using the 9825. The backup section of the TNCS detail screen of both the 9820 and 9890 will need to be set up as shown below.

9820/21 Backup Data

9890 Backup Data

Parameter	Value	Parameter	Value
Backup State	Inactive	Backup State	Inactive
Backup Mode	Automatic	Backup Mode	Automatic
Restore Mode	Automatic	Restore Mode	Automatic
Backup Priority	See note 1	Backup Priority	See note 1
Backup Device	See note 2	Backup Device	See note 2
Backup Script	Bu9820_3.txt	Backup Script	Bu9890_2.txt
Restore Script	Res9820_3.txt	Restore Script	Res9890_2.txt
Linked to device 1	See note 3	Linked to device 1	See note 4
Linked to device 2		Linked to device 2	
Linked to device 3		Linked to device 3	
Device is backup	Read only	Device is backup	Read only
Backup State Counter	Read only	Backup State Counter	Read only
Backup Test Mode	Normal	Backup Test Mode	Normal
IF Backup Bus	Off	Baseband Bus	Off
Baseband Bus	Off		
Backup BTSC Encoder			

Note 1 Enter the backup priority of the device. Valid entries are 1 to 99. Both the 9820/21 and 9890 should have the same backup priority.

Note 2 Enter the unique name of the backup device.

Note 3 Enter the unique name of the 9890 that will be backed up with the 9825. OR Enter NEXT if the 9890 is positioned in the slot immediately to the right of the 9820/21.

Note 4 Enter the unique name of the 9820/21 that will be backed up with the 9825. OR (Refer to the TNCS manual for more information on backup device names.) Enter PREVIOUS if the 9820/21 is positioned in the slot immediately to the left of the 9890.

The 9820_3 backup script performs the following procedure. When an alarm that has been flagged for backup occurs on the 9820/21 module, the backup script is initiated. The backup script reads the configuration settings from the device in alarm and copies it to the Backup device. It also copies BTCS encoder preset configuration. After the configuration settings have been copied, the script commands the 9820/21 module in alarm to offline mode. Next the script commands the primary device to drop its input to bus. The backup device is then commanded to go online. Since the 9825 uses preset BTSC encoder, the 9890 scripts will just command the 9890 to go

offline. The 9890 is linked to the 9820/21 by its unique name in the **Linked to Device 1** field. This caused the 9890_2 script to run on the 9890. The 9820/21 device should also be linked to the 9890 by its unique name in the **Linked to Device 1** field. By linking both devices, and alarm on either device will initiate the backup.

3. Backup 9820/21 devices with a 9825 device

This script (9820_3m.txt) is used to provide out of chassis backup for the 9820/21 using the 9825. The backup section of the TNCS detail screen of the 9820/21 will need to be set up as shown below.

9820/21 Backup Data

Parameter	Value
Backup State	Inactive
Backup Mode	Automatic
Restore Mode	Automatic
Backup Priority	See note 1
Backup Device	See note 2
Backup Script	Bu9820_3m.txt
Restore Script	Res9820_3m.txt
Linked to device 1	
Linked to device 2	
Linked to device 3	
Device is backup	Read only
Backup State Counter	Read only
Backup Test Mode	Normal
IF Backup Bus	Off
Baseband Bus	Off
Backup BTSC Encoder	

Note 1 Enter the backup priority of the device. Valid entries are 1 to 99.

Note 2 Enter the unique name of the backup device. Refer to the TNCS manual for more information on backup device names.

The 9820_3m backup script performs the following procedure. When an alarm that has been flagged for backup occurs on the 9820/21 module, the backup script is initiated. The backup script reads the configuration settings from the device in alarm and copies it to the Backup device. After the configuration settings have been copied, the script commands the 9820/21 module in alarm to offline mode. Next the script commands the primary device to drop its input to bus. The backup device is then commanded to go online. Note that when using a 9825S as the backup device, only the mono mode is supported.

4. Backup 9860/61 device with a 9825 device

This script (9860_2.txt) is used to provide out of chassis backup for the 9860/61 using the 9825. The backup section of the TNCS detail screen of the 9860/61 will need to be set up as shown below.

9820 Backup Data

Parameter	Value
Backup State	Inactive
Backup Mode	Automatic
Restore Mode	Automatic
Backup Priority	See note 1
Backup Device	See note 2
Backup Script	Bu9860_2.txt
Restore Script	Res9860_2.txt
Linked to device 1	
Linked to device 2	
Linked to device 3	
Device is backup	Read only
Backup State Counter	Read only
Backup Test Mode	Normal
IF Backup Bus	Off

Note 1 Enter the backup priority of the device. Valid entries are 1 to 99.

Note 2 Enter the unique name of the backup device. Refer to the TNCS manual for more information on backup device names.

The 9860_2 backup script performs the following procedure. When an alarm that has been flagged for backup occurs on the 9860/61 module, the backup script is initiated. The backup script reads the configuration settings from the device in alarm and copies it to the Backup device. After the configuration settings have been copied, the script commands the 9860/61 module in alarm to offline mode. Next the script commands the primary device to drop its input to bus. The backup device is then commanded to go online. After the device is on-line, the chassis backup mode is commanded to manual to bus.

