

# Release Notes

**Prospect® Data Acquisition Tools 7.1**

**Nortel CDMA RP16.3 Patch 01**



## ***DOCUMENT CONTROL***

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## 1 Description

This document provides information on the Prospect Data Acquisition Tools 7.1 / Nortel CDMA RP16.3 Patch 01 release.

## 2 New Features

Here are the new EVDO 8.0 templates for which support is added in this DA release.

<b>Entity</b>	<b>Template</b>
DO_RNC	RNCCLusterLB
DOM_Card_Resource	TCAACHCCHUtilizationDurations
DOM_Sector	RnACHcapsuleCCHSyncSubSyncAsyncSlotUtilization
DOM_Sector	TrafficTypePerfBySectorClass

The above template names are updated in the templateFile included with this DA release.

## 3 Resolved Issues

Following is a list of problems present in the previous release that have been resolved.

<b>CQ /PMR</b>	<b>Description</b>	<b>Action Taken</b>
SEAd69001 / PMR=53312,370,000	CBRS retrievals are not working in RP15.3 / DAT 7.1	Fix provided
SEAd68997	DA RP15.3: PPC data type retrieval fails when two interval files exist	Fix provided
SEAd69004 #10 / PMR=53246.370.000	Unavailable TERM value in the OS environment causes the cron fail to run	Release notes updated in Known Problems / Useful hints section
SEAd69132 / PMR=53726,370,000	scp/ssh is not working after installation of DAT 7.1	Release notes updated in Known Problems / Useful hints section
SEAd69004 #1	Install log should be available when running setconfig.ksh	DA documentation pdf updated
SEAd67567	Sesser MTX/PMSC ready for Telnet access	Fix provided
SEAd68983	DA RP15.3 Patch 01: sd.chgpswd script should connect to MTX via CBM	Fix provided
SEAd69174 (issue 5)	DA Corrective Actions from DA 7.1 - Carry-over items from SEAd69004	Fix provided
SEAd69087	RNCcfg files are failing to download when too many	Fix provided

<b>CQ /PMR</b>	<b>Description</b>	<b>Action Taken</b>
	batchscp processes are running simultaneously in DAT 7.1	
SEAd69131	icf_chat.exp issue:oklahoma , sw-oklahoma file retrievals are interfering with each other	Fix provided
SEAd69170	DA changes for RP16: EMSFILIST Update	Fix provided
valnt00017302	DA7.1 EVDO transfer rate is very slow	Fix provided
valnt00018864	BATCHSCP.EXP not working when coping files from DA server to Prospect server	Fix provided
valnt00018867	Most RNC collections have ceased working after the message of day has been updated system wide	Fix provided  DA Tool Guide updated in Troubleshooting section
valnt00018870	tmp issue in certain markets	Fix provided
valnt00018873	ssh key gets reset each week	No fix provided. This is configuration issue.
valnt00041111	Want to have ability to configure the first field of the SDM data files. This would normally be the MTX name. from MTXpm data files.	Fix provided
valnt00041665	DA Nortel RP15.3 Patch 01 issues	Fix provided
valnt00053554/ APAR IZ31867	DA needs to have ability to turn off DOM data collection.	Fix provided. The DOM files have the option to be retrieved or not.
valnt00052027/ APAR IZ30108	patch.sh script needs to be adapted	Fix provided. The patch can be installed from softlink location.
valnt00047405/ APAR IZ29149/ PMR 53909,370,000	Cron entries for rncfgr datatype need to be randomized for the minutes, not the hours	Fix provided. The cronjob is now staggered in minutes.
valnt00052033/ APAR IZ30090/ PMR 08492,370,000	The redirection of standard output to /dev/null is incorrectly implemented	Fix provided. The end quote is now located before redirection to /dev/null.
valnt00053405/ APAR IZ31861/ PMR 31368,999,000	DA sends fatal error because of incorrect regular expression in bsmomdist.exp script.	Fix provided. Connection session for bsmom will now exit successfully.
valnt00053724/ APAR IZ30217/ PMR 27618,999,000	Evdo data collection errors out if no DOM directory	Fix provided. DOM collection for "rncom" will now continue when transfer script finds missing DOM directory on the EMS.

## 4 Known Problems / Useful Hints

### 4.1 Benign error messages displayed as FATAL [SEAd69004 #9]

*Description:* During any ssh/telnet connections, icf\_chat.exp will send expect commands to manually close the session. However, sometimes, the returned expect message (from the network element) is different than what the icf\_chat.exp expects. In these cases, even though the session is actually has been closed, the icf\_chat.exp will log a 'Fatal' message

```
icf_chat.exp: Fatal: Deinit: spawn_id: spawn id exp4 not
open
```

*Impact:* This might confuse the user; although actually this message can be ignored.

*Workaround:* None.

### 4.2 Unavailable TERM value in the OS environment causes the cron fail to run [SEAd69004 #10 / PMR=53246.370.000]

*Description:* If the TERM value is not set in the OS environment, the cron that executes the icf\_chat.exp for data collections will fail to be executed.

*Impact:* Data collection will fail.

*Workaround:* Set TERM value in the .kshrc of the flexda (refer to the Troubleshooting section in DA\_Tools.pdf for more information).

### 4.3 Install log should be available when running setconfig.ksh [SEAd69004 #1]

*Description:* Currently, there is no install log available when running setconfig.ksh.

*Impact:* All the install messages will not be available for reference.

*Workaround:* Run the setconfig.ksh while specifying the log destination. (refer to the DA\_Tools.pdf, installation section for more information).

### 4.4 scp/ssh is not working after installation of DAT 7.1 [SEAd69132 / PMR=53726,370,000]

*Description:* After installation of DAT 7.1, the scp/ssh cannot be issued directly in command prompt by the DAT user (i.e flexda), where these error log will be displayed :

```
/tmp/da/new/openssh-3.8.1p1/bin/ssh: No such file or directory
```

*Impact:* The DAT user cannot issue the scp directly on the command prompt without specifying the source of the ssh (-S flag).

---

**Workaround:** The scp/ssh released with Nortel DAT 7.1 release has been compiled to comply with IBM security standards. If there are any problems with ssh/scp usage, the workaround can either be:

1. Issue the scp command using the `-S` flag, and specify the ssh located in `~/flexpkg/bin/ssh`, i.e

```
$ scp -S ~/flexpkg/bin/ssh /tmp/testfile 10.110.10.1:/tmp/.
```

2. Link the `~/flexpkg/bin/scp` to `/usr/bin/scp` and `~/flexpkg/bin/ssh` to `/usr/bin/ssh`

#### 4.5 QA Test unable to verify tickets SEAd67567 and SEAd68983 due to unavailable machines [SEAd69787]

**Description:** Due to the unavailability of the CBM and the MTX network elements with passthrough ability, this patch could not be quality tested in its entirety. This ticket was tested for syntactic correctness and installation ONLY. It is recommended for the final product to be properly tested in customer environment. Ticket#SEAd68990 was raised to track this in previous builds.

**Impact:** This would limit QA test scope. Test will only be conducted for the installation.

**Workaround:** None.

#### 4.6 DA Nortel RP16.1: limited QA test coverage for Ticket#valnt00041665 [valnt00042815]

**Description:** QA Test has performed limited test coverage for verifying Ticket#valnt00041665. This limited test coverage is limited to the Problem #3 in this ticket, concerning the removal of CDMACONF from the MTXTABLES.

QA do not have an MTX switch in their test lab to test the MTX data type, and the limited test coverage consisted of running `setconfig.ksh` and verifying that CDMACONF is not listed among the MTXTABLES in `sd.mtx*.tables.dist.icf` files.

**Impact:** This would limit QA test scope. Test will only be conducted for the installation.

**Workaround:** None.

#### 4.7 DA Nortel RP16.1: FTP retrievals significantly longer than SCP retrievals [valnt00043000]

**Description:** Retrievals for the RNC data type has been observed to be significantly longer when using FTP compared to SCP. It has been observed in QA testing that retrieval times using FTP are double that of SCP when tested with over 100 DOM. Cause of behaviour is undetermined even though scp and ftp retrievals are using the same piece of code to do cat and gzip.

**Impact:** RNC data retrieval using FTP will consume longer time compared to using SCP.

**Workaround:** None.

## 5 Installation and Upgrade Instructions

### 5.1 Prerequisites

#### 5.1.1 Baseline Requirements

The base environment require for the deployment of this patch is:

- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP15.3 Base, or
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.0 Base

This patch is a cumulative upgrade and can be applied against:

- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP15.3 Patch01
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP15.3 Patch02
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.0 Patch03
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.1 Upgrade
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.2 Upgrade

**Important!** *It is critical that you apply this patch to an environment at the correct patch level. Please verify the environment carefully. For more information, please contact IBM customer support.*

### 5.2 Pre-Installation Instructions

The following instructions must be executed on the Prospect DA server.

1. Log in as user `flexda`.
2. Go to the `$FLEXDAHOM` directory:  

```
$ cd $FLEXDAHOM
```
3. Copy the file `7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000.tar` to this directory.
4. Extract the package using the following command. This will create a subdirectory (`patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/`) in `$FLEXDAHOM` and will extract files into this directory:

```
$ tar -xvf 7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000.tar
```

### 5.3 Installation Instructions

1. Log in as user `flexda`.
2. Stop the cron job

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```

1          1          N          Y          \
<scratcharea>
SD          $tdir    ????.????.????.??? ems01    rnc02    emsuser    emspass \
$rncomsdir    rncom          0          50          N          \
1          1          N          Y          \
<scratcharea>

```

Update this section to retrieve data from SDM. The new or updated data highlighted in blue color. The **MTXNAME** parameter was added to support data file naming for customer who converting from AFT to SDM/CBM. For other customer, the **MTXNAME** need to be set with same value as MSCNAME. The **MTXNAME** value need to be same as value set in msc\_list.

```

#
# SDM
#

sdmsdir=/omdata/closedNotSent
cbmsdir=/cbmdata/00/billing/ama/closedNotSent
sdmddir=/omdata/closedSent
cbmddir=/cbmdata/00/billing/ama/closedSent

# Prospect Loader target directory
tdir=/u01/apps/WatchMark/FlexPM/Nortel/x/vendor/Nortel/MSC/ftpIN/MTX12/in

# MARKET  TGTDIR      SRCIP          SRCID          MSCNAME        SRCUSER        SRCPSWD
# -----  -----      -----          -----          -----        -----        -----
#          SRCDIR      CBMSRCDIR      SRCOPT          DATATYPES      TMADJ          COLMULT
#          -----      -----          -----          -----        -----        -----
#          MVSRC      SDMDDIR          CBMDDIR
#          -----      -----          -----
#          SECURERETRIEVE  SECUREDELIVER  PSWD_AUTH  MTXNAME
#          -----          -----          -----          -----
set -A ntcdma_sdm \
SD          $tdir    ????.????.????.??? sdm01    msc01    sdmuser01  sdmpass01 \
          $sdmsdir  $cbmsdir          both    sdmom    0          yes          \
yes          $sdmddir  $cbmddir
          1          1          N          mtxname

```

#### 4. Run setconfig.ksh script

```

$ $FLEXDAHOME/INSTALL/ALL/scripts/setconfig.ksh \
$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg

```

#### 5. Start the cron job

## 5.5 Uninstallation Procedure

1. Log in as user flexda.
2. Stop the cron job
3. Go to the directory \$FLEXDAHOME/patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000

```

$ cd \
$FLEXDAHOME/patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000

```

4. Uninstall the patch.

```

$ ./patch.sh -uninstall

```

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5. Restore the  
\$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg file from backup.
6. Run `setconfig.ksh` script.  
\$ cd \$FLEXDAHOME/INSTALL/ALL/scripts  
\$ setconfig.ksh \  
\$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg
7. Start the cron job

## 6 Errata

### 6.1 MTXNAME parameter description for SDM configuration in section Field Descriptions in Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX16

The description should be "MTX Name with which the data source is associated. This parameter only for user who upgrades from AFT to SDM/CBM and not using CLI code. For other user, please set the value to be same as MSCNAME. Note, the value for this parameter need to be same as value in `msc_list`".

## 7 Exception

### 7.1 FATAL error when unable to collect rncom data with REMOTE\_COMPRESSION set to 'N'

*Message example:*

```
batchscp.exp: FATAL: Not all files are transferred; Required :  
[*.dat], transferred : []  
  
icf_chat.exp: Error: 2008-09-11 19:43:33 : Unable to copy file  
*.dat files from remote directory  
/u01/apps/WatchMark/FlexDA/DATA_INPUT/RNC/dcFiles6/DOM_10.8.75.77  
/09112008 : child process exited abnormally  
  
icf_chat.exp: Error: 2008-09-11 19:43:33 : Skipping remote  
directory  
/u01/apps/WatchMark/FlexDA/DATA_INPUT/RNC/dcFiles6/DOM_10.8.75.77  
/09112008
```

*Explanation:*

These FATAL error messages indicate that DA was unable to collect the DOM data files configured in the `candidaterncQuery` file. The user will see these messages when the DOM data files cannot be retrieved and `REMOTE_COMPRESSION` is set to 'N'.

---

DA will continue to collect the next configured DOM and will not fail the session. However, the user will need to perform investigative action on determine the cause of the error messages.

## 8 Customer Support

Contact IBM customer support if a problem is encountered during the installation of this release.

## 9 Manifest

patches/  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/chgpswd.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/host.ntcdma.cfg.sample  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/icf\_chat.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/mtxtablesdist.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/ntcdma\_cfg.txt  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/package.info  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/patch.sh  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/ppcstaget.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/set\_ntcdma.ksh  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/templateFile  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/batchscp.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/extract\_rmt.pl  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/pgmscsdmomdist.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/rncom-spacecalc  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/rncomdist\_rmt.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/ntcdma\_errormsg.txt  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/rncomdist.exp  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/extract.pl  
patches/7.1.16.3-TIV-PROSPECTDA-NORCDM-FP0000/bsmomdist.exp

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