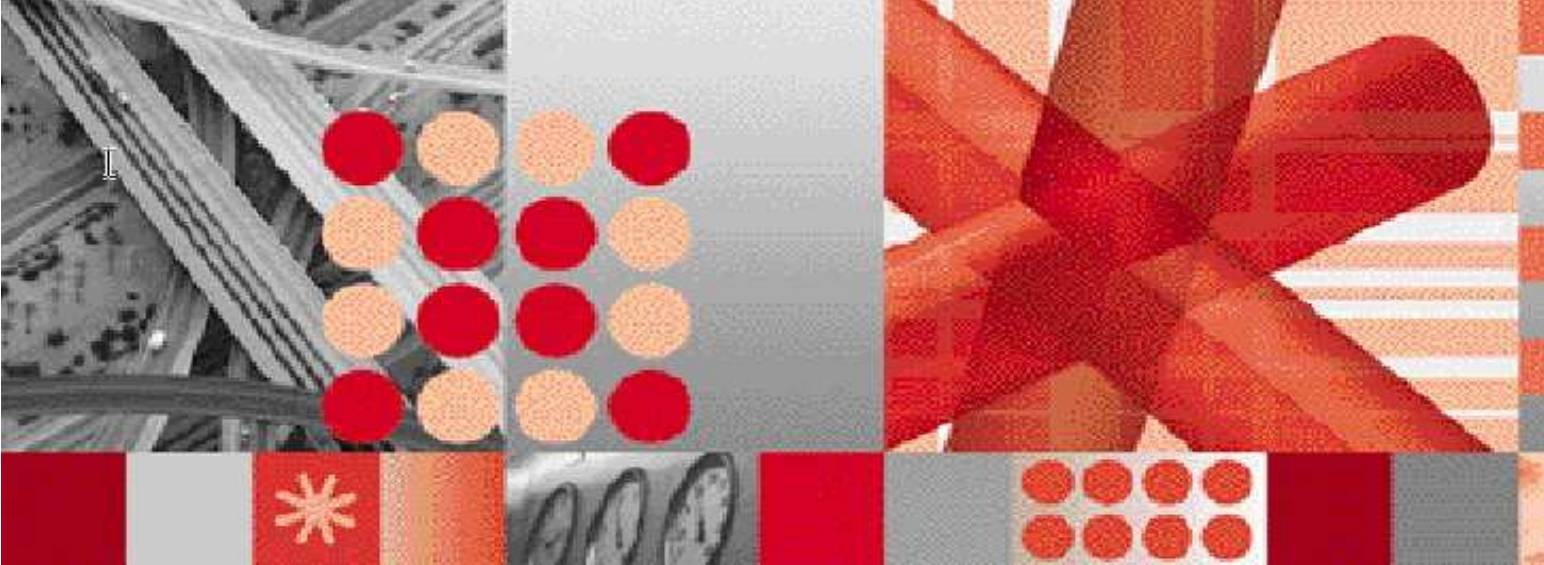




Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7
(7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000.tar)



Release Notes

Document Revision Number (v2.3)

IBM Prospect Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 Release Notes

Note: Before using this information and the product it supports, read the information in Notices section in this document.

This edition applies to IBM Prospect Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 and to all subsequent releases and modifications until otherwise indicated in new editions.

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2 About this Documentation

Table 1 below details the information provided by the *IBM Prospect®* Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 Release Notes.

Table 1 – About this Documentation

<i>Chapter</i>	<i>Description</i>
About this Documentation	An overview of the Prospect® Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 documentation, which gives details of the intended audience and the structure of the guides.
Release Contents	Information on the release content included in the release.
Media Content	Details of media provided for the release.
Hardware Requirements	Details of hardware required for the release.
Software Requirements & Installation Information	Details on the Software required and the guides to be followed during the installation of the product for the release.
Known issues	Details on known issues included in the release and workarounds, if available.

2.1 Audience

The target audience of this guide is system administrators of Prospect or a person who installs / upgrades the Prospect DA server.

IMPORTANT: Before attempting an installation of Prospect® Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 you are strongly advised to read these release notes. Failure to consult these release notes may result in a corrupt, incomplete or failed installation.

2.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- *Knowledge of Solaris.*
- *Working knowledge of the Prospect DAT*
- *General IT and telecommunications principles*
- *Ability to run shell and Perl scripts.*
- *Knowledge of Prospect administrator scripts and client / Pweb interface*

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

2.3 Document Conventions

The following command prompts can be seen throughout this document where the user has to enter commands at the command line:

- # (hash): This prompt will be displayed if the user is logged in as user root.
- \$ (dollar): This prompt will be displayed if the user is logged in as either the server or oracle user.

Please note the above prompts are not part of commands. All commands must be entered after these prompts.

This document uses the typographical conventions shown in the following table:

Table 2: General Document Conventions

<i>Format</i>	<i>Examples</i>	<i>Description</i>
ALL UPPERCASE	GPS NULL MYWEBSERVER	Acronyms, device names, logical operators, registry keys, and some data structures.

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Link	See www.sun.com	For links within a document or to the Internet.
Bold	Note: The busy hour determiner is...	Heading text for Notes, Tips, and Warnings.
SMALL CAPS	The STORED SQL dialog box... ...click VIEW... In the main GUI window, select the FILE menu, point to NEW, and then select TRAFFIC TEMPLATE.	Any text that appears on the GUI.
<i>Italic</i>	A <i>busy hour</i> is... A web server <i>must</i> be installed... See the <i>User Guide</i>	New terms, emphasis, and book titles.
Monospace	<pre>./winstall \$ cd /cdrom/cdrom0 /xml/dict addmsc.sh core.spec Type OK to continue.</pre>	Code text, command line text, paths, scripts, and file names. Text written in the body of a paragraph that the user is expected to enter.
Monospace Bold	<pre>[root] # pkginfo grep -i perl system Perl5 On-Line Manual Pages system Perl 5.005_03 (POD Documentation) system Perl 5.005_03</pre>	For contrast in a code example to show lines the user is expected to enter.
< <i>Monospace italics</i> >	<pre># cd <oracle_setup></pre>	Used in code examples: command-line variables that you replace with a real name or value. These are always marked with arrow brackets.
[square bracket]	<pre>log-archiver.sh [-i][-w][-t]</pre>	Used in code examples: indicates options.

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2.4 User Publications

The following user publications are provided with the Prospect® Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 software in Adobe® PDF and HTML formats.

Table 3 – Prospect® Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 User Publications

<i>Document</i>	<i>Description</i>
DA_Tools.pdf	Prospect Data Acquisition Tools Guide

2.4.1 Accessing Publications Online

All of the IBM Prospect Core 8.0.7 publications, including Prospect Core 8.0.7 Release Notes, are available online from the IBM Information Center website as follows:

http://publib.boulder.ibm.com/infocenter/tivihelp/v8r1/index.jsp?topic=/com.ibm.netcool_pm.doc/IBM_Prospect_060308.htm

Other application release notes such as Prospect or DAT for RP16.7, are available through the customer portal

3 Release Contents

Prospect® Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 contains the following features:

3.1 New Features

3.1.1 PPC enhancements

This release revamps the setup of Passport Statistics Parser configuration files:

- i. Record Descriptor File (RDF) – One RDF per MTX version.
- ii. Passport Statistics Configuration File – Generated base on CBRS view file collected from BSM.

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The Passport Statistics Parser also enhanced to support new card types and components.

Action: Customers who collect CBRS data files (.bdf files) need to change the configuration in the <hostname>.ntcdma.cfg and regenerate the icf files for this datatype. They will also need to place the rdf files for various MTX versions \$FLEXDAHOMe/cfg directory. Refer to Section *The Passport Statistics Parser* within *Appendix E* in *Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX18* for further information on the Passport Statistics Parser.

3.1.2 USP passthrough via CNM

A new script is introduced for USP data collection from CNM instead of from USP.

Action: Customers who are planning to collect USP data from CNM need to set the PASSTHROUGH flag to 'Y' and generate necessary icf files. For customers who already collect USP data, no change is needed.

3.1.3 DA changes for Cluster ID support

RNCCfg script has been updated to collect **optional** clusterQuery file for Cluster support in Prospect Pweb reports.

Action: Customers who want to collect this data file will need to configure the EMS to run the following query similar to the other queries that generate the *.txt files in the /appdata/dcFiles on the EMS. The query should run once a day and collect the data into the **cluster file** named: /appdata/dcFiles/clusterQuery<MMDDYYYY_HHMM>.txt

Sample query:

```
select distinct RNCIPADDRESS, RNCCLUSTERID,  
RNCCLUSTERPRIMARYHOMEDSTATUS, RNCLOADLEVEL from  
CLUSTERRNCTABLE;
```

The formatting of the cluster data file should be similar to other configuration files. DAT software will collect the cluster data file (along with the other config files such as pnQuery04092010_0020.txt) and copy it into the Prospect "ftpIN/MTXnn/in" directory where it will be picked up and loaded into the database.

3.1.4 RNC section to be split into 2 sections in the <hostname>.ntcdma.cfg file

At customer sites where the number of RNC entries exceed 200 or so, the "Subscript out of range" error is seen when trying to run set_config.ksh. To prevent that, the "rnc" datatype is replaced by two other datatypes : rncm and rnccfg.

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Action:

In the host configuration file (\$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg), remove "rnc" & add "rnccfg" and "rncom" into ntcdma_type:

The example below shows the old and new formats:

Old format:

```
=====
set -A ntcdma_type \
    bsm \
    mtx \
    mtxtab \
    ppc \
    rnc \
    pdsn \
    usp \
    pvg \
    sdm \
    uas \
    mxpt \
    pdsn16000 \
    mg \
    ntmmdm
```

New format:

```
=====
set -A ntcdma_type \
    bsm \
    mtx \
    mtxtab \
    ppc \
    rnccfg \
    rncom \
    pdsn \
    usp \
    pvg \
    sdm \
    uas \
    mxpt \
    pdsn16000 \
```

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mg \\
ntmmdm

3. In the host configuration file (\$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg), split the RNC section into 2 sections (based on the DATATYPES):

Change set -A ntcdma_rnc
to
--> set -A ntcdma_rnccfg
--> set -A ntcdma_rncom

The example below shows the old and new format of the entries.

Old Format:

=====

```
set -A ntcdma_rnc \
SD $tdir 99.99.99.99 ems01 rnc01 emsuser emspass \
$rnccfgsdir rnccfg 0 none N \
1 1 Y N \
none none N none \
SD $tdir 99.99.99.99 ems01 rnc01 emsuser emspass \
$rncomsdir rncom 0 50 N \
1 1 Y Y \
scratcharea none N none \
SD $tdir 99.99.99.99 ems01 rnc02 emsuser emspass \
$rnccfgsdir rnccfg 0 none N \
1 1 Y N \
none none N none \
SD $tdir 99.99.99.99 ems01 rnc02 emsuser emspass \
$rncomsdir rncom 0 50 N \
1 1 Y Y \
scratcharea none N none \
SD $tdir 99.99.99.99 ems02 ems02 emsuser emspass \
$rnccfgsdir rnccfg 0 none N \
1 1 Y N \
none $semslist Y $cfgoutputdir \
SD $tdir 99.99.99.99 ems02 ems02 emsuser emspass \
$rncomsdir/concatenatedOM rncom 0 50 N \
1 1 Y Y \
scratcharea none Y none
```

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New Format:

=====

```
set -A ntcdma_rncfg
SD $tdir 99.99.99.99 ems01 rnc01 emsuser emspass \
$rnccfgsdir rnccfg 0 none N \
1 1 Y N \
none none N none \
SD $tdir 99.99.99.99 ems01 rnc02 emsuser emspass \
$rnccfgsdir rnccfg 0 none N \
1 1 Y N \
none none N none \
SD $tdir 99.99.99.99 ems02 ems02 emsuser emspass \
$rnccfgsdir rnccfg 0 none N \
1 1 Y N \
none $semslist Y $scfgoutputdir
```

```
set -A ntcdma_rncom
SD $tdir 99.99.99.99 ems01 rnc01 emsuser emspass \
$rncomsdir rncom 0 50 N \
1 1 Y Y \
scratcharea none N none \
SD $tdir 99.99.99.99 ems01 rnc02 emsuser emspass \
$rncomsdir rncom 0 50 N \
1 1 Y Y \
scratcharea none N none \
SD $tdir 99.99.99.99 ems02 ems02 emsuser emspass \
$rncomsdir/concatenatedOM rncom 0 50 N \
1 1 Y Y \
scratcharea none Y none
```

3.2 Resolved Issues

Table 4 – List of problems present in the previous release that have been resolved

<i>CQ / APAR / PMR</i>	<i>Description</i>	<i>Action Taken</i>
alm00155400 / IZ79178 / PMR#52734	Nortel DAT Compile Messages during setup. Set_ntcdma.ksh: "bsm01" password differs from the \$FLEXDAHOME/cfg/icf_pswdfile.cfg	No error message is output for configuration entries which have SECURERETRIEVE set to 1 and PSWD_AUTH set to N.

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	<p>set_ntcdma.ksh: The password for “ bsm02” in \$FLEXDAHOME/cfg/icf_pswdfile.cfg will remain</p> <p>Even when SECURERETRIEVE has set to 1 & PSWD_AUTH has set to N.</p>	
<p>alm00203867 / IZ84332 / PMR#68835</p>	<p>Nortel DAT Compilation Problem when array size hit limit.</p> <p>set_ntcdma.ksh[21]: 4021: subscript out of range</p>	<p>Split the RNC section into 2 sections (based on DATATYPES)</p> <p>rnc -> rnccfg -> rncom</p>

4 Media Content

Prospect® Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 is composed of the following media:

1. *DA Software. 7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000.tar*
2. *Release notes for DA (7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000.pdf)*
3. *Documentation: DA_Tools.pdf*

4.1 DAT Manifest

patches/
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/package.info
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/set_ntcdma.ksh
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/batchscp.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/bsmomdist.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/chgpswd.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/extract.pl
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/extract_rmt.pl
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/host.ntcdma.cfg.sample
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/icf_chat.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/mtxtablesdist.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/ntcdma_cfg.txt
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/ntcdma_errormsg.txt
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/patch.sh
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/pgmscsdmomdist.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/ppcstaget.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/rncom-spacecalc
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/rncomdist.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/rncomdist_rmt.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/templateFile
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/mgmtmmdmdist.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/rncomdist_concat.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/rncfgdist_concat.exp

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patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/emsrnc.cfg
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/mscpvg.cfg
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/bsmviewget.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/generate_cbrs_cfg.pl
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/
pgmscuspomdist_cnmpass.exp
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/nt_ppcsta_parse
patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/rnccfgdist.exp

5 Software Requirements & Installation

5.1 Software Requirements

To view the software products required to install the Prospect® Nortel EVDO8.1 / CDMA MTX18 DAT for RP16.7 system refer to the Prospect Installation Guide , which is included in the release media packaging (CD/DVD) or online download via web portal.

5.1.1 Supported Platforms

See Pre-requisites section in Prospect release notes for supported platforms.

5.2 Installation

5.2.1 Prerequisites

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
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.3 Patch01
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.4 Upgrade
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.5 Patch01
- Prospect® Data Acquisition (DA) Toolkit 7.1 / Nortel CDMA RP16.6 Patch01

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

5.2.2 Pre-Installation Instructions

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

1. Log in as user flexda.
2. Go to the \$FLEXDAHOME directory:

```
$ cd $FLEXDAHOME
```
3. Copy the file 7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000.tar to this directory.
4. Remove templateFile.current and cbrs.current from \$FLEXDAHOME/cfg if it persist in the directory

```
$rm $FLEXDAHOME/cfg/cbrs.current  
$rm $FLEXDAHOME/cfg/templateFile.current
```
5. Make a copy of the templateFile file as it will be overwritten by the new DA software. (Users may want to revert back to old copies after upgrade if needed)

```
$ cp $FLEXDAHOME/cfg/templateFile \  
$FLEXDAHOME/cfg/templateFile.current
```
6. Rename the cbrs.cfg and ppc_sta.rdf file for backup as they will no longer need in the new DA software. (Users may want to revert back to old copies after upgrade if needed)

```
$ mv $FLEXDAHOME/cfg/cbrs.cfg $FLEXDAHOME/cfg/cbrs.cfg.backup  
$ mv $FLEXDAHOME/cfg/ppc_sta.rdf \  
$FLEXDAHOME/cfg/ppc_sta.rdf.backup
```
7. Extract the package using the following command. This will create a subdirectory (patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/) in \$FLEXDAHOME and will extract files into this directory:

```
$ tar -xvf 7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000.tar
```

5.2.3 Installation Instructions

1. Log in as user flexda.
2. Backup the cron job

```
$ crontab -l > crontab.save.<date>
```

Example of <date> could be 20091010, and make sure the backup file is created.
3. Stop the cron job

```
$ crontab -r
```
4. Stop the flexda monitor

```
$ flexda stop <hostname>.mon
```

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5. Go to the directory `$FLEXDAHOME/patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000`
`$ cd \
$FLEXDAHOME/patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000`
6. Install the patch.
`$./patch.sh -install 2>&1 | tee install.log.$$`
7. Review the install log file. If there are any concerns or issues, please contact IBM support team for help.

5.2.4 Post-Installation Instructions

1. Log in as flexda user.
2. Make a backup copy of the
`$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg` file
3. Update the required following information for the MTX, RNC, SDM, MMDM, PPC, and USP configuration in: `$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg`.

For more information, refer to following:

`$FLEXDAHOME/INSTALL/ALL/doc/host.ntcdma.cfg.sample` and refer to section *Field Description in Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX18* for further information on how to configure the new parameters.

4. For upgrade from version before RP16.5, populate the `emsrnc.cfg` and `mscpvg.cfg` in `$FLEXDAHOME/cfg`. Refer to section *Configuration Files Example in Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX18* for further information on how to configure these files.

Enable the write permission before editing the `emsrnc.cfg` and `mscpvg.cfg`:

```
$ chmod u+w $FLEXDAHOME/NORTEL/cfg/emsrnc.cfg  
$ chmod u+w $FLEXDAHOME/NORTEL/cfg/mscpvg.cfg
```

For upgrade from version RP16.5 and above, restore both `emsrnc.cfg` and `mscpvg.cfg` from `$FLEXDAHOME/patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/backup` to `$FLEXDAHOME/NORTEL/cfg/`

```
$ cp $FLEXDAHOME/patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/backup/emsrnc.cfg.bak $FLEXDAHOME/NORTEL/cfg/emsrnc.cfg  
$ cp $FLEXDAHOME/patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000/backup/mscpvg.cfg.bak $FLEXDAHOME/NORTEL/cfg/mscpvg.cfg
```

Enable the write permission before restore the `emsrnc.cfg` and `mscpvg.cfg`:

```
$ chmod u+w $FLEXDAHOME/NORTEL/cfg/emsrnc.cfg  
$ chmod u+w $FLEXDAHOME/NORTEL/cfg/mscpvg.cfg
```

5.2.5 Changes to NTTYYPES section of <hostname>.ntcdma.cfg

Update this section to add the specific RNC types ([rnccfg](#) & [rncom](#)) into NTTYYPES section to replace [rnc](#). The updated data is highlighted in blue color.

```
# NTTYYPES
# -----
set -A ntcdma_type \
    bsm \
    mtx \
    mtxtab \
    ppc \
    rnccfg \
    rncom \
    pdsn \
    usp \
    pvg \
    sdm \
    uas \
    mxpt \
    pdsn16000 \
    mg \
    ntmmmdm
```

5.2.6 Changes to MTX section of <hostname>.ntcdma.cfg

Update this section to retrieve data from MTX. New parameters were added to support MTX connection through CBM. The new or updated data is highlighted in blue color.

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

# MARKET      TGTDIR      SRCIP          SRCID          SRCUSER        SRCPSWD      NOOFOMGRPS
# -----
#           AFTPORT CHGPSWD DATATYPES
#           -----
#           OMGRPSCFG          TMADJ
#           -----
# CBMPASSTHROUGH   CBMIP          CBMSRCUSER     CBMSRCPSWD
# -----
#           SECURERETRIEVE   SECUREDELIVER   PSWD_AUTH
#           -----
set -A ntcdma_mtx
SD   $tdir  99.99.99.99  MTX48  mtxuser  mtxpass  337  \
    30001  Y    mtxom, trkmem, tables, omshow, actlog \
    cfg/omgroups.cdma  60 \
N   1      99.99.99.99  cbmuser  cbmpass \
SD   $tdir  99.99.99.99  MTX49  mtxuser  mtxpass  337  \
    30001  Y    mtxom, trkmem, tables, omshow, actlog \
    cfg/omgroups.cdma  60 \
N   1      99.99.99.99  cbmuser  cbmpass \
SD   $tdir  99.99.99.99  MTX50  mtxuser  mtxpass  337  \
    30001  Y    mtxom, trkmem, tables, omshow, actlog \
    cfg/omgroups.cdma  60 \
N   1      99.99.99.99  cbmuser  cbmpass \
```

5.2.7 Changes to RNC section of <hostname>.ntcdma.cfg

Update this section to retrieve EVDO data. **This section needs to be updated regardless of whether the file concatenation feature is being turned on or turned off at the EMS.** New parameters are added and `scratcharea` was removed to support new RNC OM collection method. Before updating this section for each EMS, determine whether the EVDO concatenation option is turned on or off. (You may have to consult the EMS administrator(s) for this information.) EVDO Concatenation is an EVDO 8.0 feature that enables collection of concatenated data files. Once you have that information, you are ready to edit this section.

- 1) The new or updated data highlighted in blue color. Removed section highlighted in red color and Italic. Lines prefix with '#' and in bold are for explanation only and should not be put between lines ending with '\
- 2) `SCRATCHAREA` is not common among RNCs anymore. It resides on the EMS when `REMOTE_COMPRESSION` is set to Y. `REMOTE_COMPRESSION` can vary among the RNC entries as well. The `SCRATCHAREA` parameter was moved to bottom of the section and needs to be filled with absolute path. Please make sure the path set in `SCRATCHAREA` is a valid path.
- 3) `DOM_BATCH_SIZE` only be used when the `REMOTE_COMPRESSION` is set to Y. If `REMOTE_COMPRESSION` is set to N, `DOM_BATCH_SIZE` should be 'none'. To disable the batching mechanism, set `DOM_BATCH_SIZE` to a number higher than number of DOMs in `candidaterncQuery<date>.txt` file.
- 4) `REMOTE_COMPRESSION` is only applicable when `CONCAT_ON` is set to 'N'.
- 5) The `DOM_COLLECTION` is used to enable or disable the DOM file collection. When `CONCAT_ON` is set to 'N', setting `DOM_COLLECTION` to 'Y' will instruct DA to collect the DOM files configured in `candidaterncQuery<date>.txt` file. Setting `DOM_COLLECTION` to 'N' will stop DA from collecting DOM files even if the DOM was configured in `candidaterncQuery<date>.txt` file. When `CONCAT_ON` is set to 'Y', setting `DOM_COLLECTION` to 'Y' will instruct DA to collect the DOM template files. Setting `DOM_COLLECTION` to 'N' will stop DA from collecting DOM template files. This is controlled by the `EMSFILIELIST` variable in the `.icf` file.
- 6) When `CONCAT_ON` is set to 'Y', only 1 entry each for `rncom` and `rncfg` should be configured for the same `SRCID` (or EMS IP). The sample below shows `rnc01` and `rnc02` being configured for `ems01` with `CONCAT_ON` set to 'N', while only 1 entry is configured for `ems02` which has `CONCAT_ON` set to 'Y' and `RNCID` set to `SRCID`.
- 7) `ALL_EMS_LIST` and `CONFIG_TARGET` are applicable to `rncfg` datatype when `CONCAT_ON` is set to 'Y'. In other cases set both these to 'none'. (Refer to *Appendix H in Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX18* for sample file)
- 8) Split the RNC section into 2 sections (`ntcdma_rncfg` & `ntcdma_rncom`)

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```

#
# RNC
#
# RNC OM Source Base Directory
rncomsdir=/appdata/dcFiles
rnccfgsdir=/appdata/dcFiles

# Local scratch area for RNC OM file processing
# If none is used, do not change this configuration below
# (defaulted to $LOCALDIR/tmp)
scratcharea='$LOCALDIR/tmp'

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

# Prospect Loader target directory for rnccfg candidaterncquery
cfgoutputdir=/u01/apps/WatchMark/FlexPM/Nortel/x/vendor/Nortel/MSC/ftpIN/evdo_cfg

# List of EMS and related RNC
emslist=$FLEXDAHOME/cfg/emsrnc.cfg

# * SCRATCHAREA option is only applicable to rncom datatypes.
# For rnccfg datatypes, just set SCRATCHAREA to 'none'
#
# MARKET  TGTDIR  SRCIP          SRCID  RNCID  SRCUSER  SRCPSWD
# -----  -----  -----  -----  -----  -----  -----
# SRCDIR          DATATYPES  TMADJ    DOM_BATCH_SIZE  DOM_COLLECTION
# -----  -----  -----  -----  -----
# SECURERETRIEVE SECUREDELIVER PSWD_AUTH REMOTE_COMPRESSION
# -----  -----  -----  -----
# SCRATCHAREA  ALL_EMS_LIST  CONCAT_ON  CONFIG_TARGET
# -----  -----  -----  -----
set -A ntdma_rnccfg \

# Sample rnccfg entry for non file concatenation EMS
SD      $tdir  99.99.99.99  ems01  rnc01  emsuser  emspass  \
$rnccfgsdir  rnccfg  0          none   N       \
1        1          N          N       \
none     none    N          none   \
SD      $tdir  99.99.99.99  ems01  rnc02  emsuser  emspass  \
$rnccfgsdir  rnccfg  0          none   N       \
1        1          N          N       \
none     none    N          none   \

# Sample rnccfg entry for file concatenation EMS (only 1 entry per EMS)
SD      $tdir  99.99.99.99  ems02  ems02  emsuser  emspass  \
$rnccfgsdir  rnccfg  0          none   N       \
1        1          N          N       \
none     $emslist  Y          $cfgoutputdir

set -A ntdma_rncom \

# Sample rncom entry for non file concatenation EMS
SD      $tdir  99.99.99.99  ems01  rnc01  emsuser  emspass  \
$rncomsdir/RNC_99.99.99.99  rncom  0      50     N       \
1        1          N          Y       \
<scratcharea>  none    N          none   \
SD      $tdir  99.99.99.99  ems01  rnc02  emsuser  emspass  \
$rncomsdir/RNC_99.99.99.99  rncom  0      50     N       \
1        1          N          Y       \
<scratcharea>  none    N          none   \

# Sample rncom entry for file concatenation EMS (only 1 entry per EMS)
SD      $tdir  99.99.99.99  ems02  ems02  emsuser  emspass  \
$rncomsdir/concatenatedOM  rncom  0      50     N       \
1        1          N          Y       \
<scratcharea>  none    Y          none

```

5.2.8 Sample settings for EMS with file concatenation feature disabled

Here are sample settings for a RNC does not have the file concatenation feature turned on the EMS:

- 1) Set ALL_EMS_LIST to none
- 2) Set CONCAT_ON to 'N'
- 3) Set CONFIG_TARGET to none

5.2.9 Sample settings for EMS with file concatenation feature enabled.

Note: Once file concatenation feature is turned on the EMS, this section can be used to configure existing RNC's to work with concatenated files.

Here is an example of config entries for an EMS where file concatenation feature has been turned on. Assume that the EMS name is *ems11* and it has 2 RNCs: *ems11rnc111* and *em11rnc112*. Below is a comparison of the entries in the <hostname>.ntcdma.cfg before and after the concat feature is enabled.

The following sample entries are for rnccfg & rncm datatype in the host configuration file BEFORE file concatenation is enabled:

```
# MARKET  TGTDIR  SRCIP          SRCID  RNCID  SRCUSER  SRCPSWD
# -----  -----  -----  -----  -----  -----  -----
# SRCDIR          DATATYPES  TMADJ    DOM_BATCH_SIZE  DOM_COLLECTION
# -----  -----  -----  -----  -----
# SECURERETRIEVE SECUREDELIVER PSWD_AUTH REMOTE_COMPRESSION
# -----  -----  -----  -----
# SCRATCHAREA  ALL_EMS_LIST  CONCAT_ON  CONFIG_TARGET
# -----  -----  -----  -----

SD      $tdir    99.99.99.99  ems11    ems11rnc111  emsuser  emspass  \
$rnccfgsdir   rnccfg      0        none      N          N          \
1           1           N          \
none      none      N          none      \

SD      $tdir    99.99.99.99  ems11    ems11rnc112  emsuser  emspass  \
$rnccfgsdir   rnccfg      0        none      N          N          \
1           1           N          \
none      none      N          none      \

SD      $tdir    99.99.99.99  ems11    ems11rnc111  emsuser  emspass  \
$rncomsdir/RNC_99.99.99.99  rncom      0        50        N          \
1           1           N          Y          \
/tmp/scratcharea  none      N          none      \

SD      $tdir    99.99.99.99  ems11    ems11rnc112  emsuser  emspass  \
$rncomsdir/RNC_99.99.99.99  rncom      0        50        N          \
1           1           N          Y          \
/tmp/scratcharea  none      N          none      \
```

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The following entries are for rnccfg & rncom datatype in the host configuration file AFTER file concatenation is enabled:

```

# MARKET  TGTDIR  SRCIP          SRCID  RNCID  SRCUSER  SRCPSWD
# -----  -----  -----  -----  -----  -----  -----
# SRCDIR          DATATYPES  TMADJ    DOM_BATCH_SIZE  DOM_COLLECTION
# -----  -----  -----  -----  -----
# SECURERETRIEVE SECUREDELIVER PSWD_AUTH REMOTE_COMPRESSION
# -----  -----  -----  -----
# SCRATCHAREA  ALL_EMS_LIST  CONCAT_ON  CONFIG_TARGET
# -----  -----  -----  -----

SD      $tdir  99.99.99.99  ems11  ems11  emsuser  emspass  \
$rnccfgsdir  rnccfg  0      none  \
1        1      N      N      \
none    $emslist  Y      $cfgoutputdir  \

SD      $tdir  99.99.99.99  ems11  ems11  emsuser  emspass  \
$rncmsdir/concatenatedOM  rncom  0  50  N  \
1        1      N      Y      \
/tmp/scratcharea  none  Y      none  \

```

Important Notes:

Make a backup copy of the \$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg file before enabling file concatenation for a particular EMS.

- 1) Make sure only 1 entry per EMS for both rnccfg & rncom datatype.
- 2) Set RNCID to same as SRCID
- 3) Set CONCAT_ON to 'Y'
- 4) Set SRCDIR to a valid path for rncom datatype
- 5) Set CONFIG_TARGET to valid path for rnccfg datatype
- 6) Create entries in the file pointed to by the ALL_EMS_LIST variable for the "rnccfg" datatype. Populate the file with the EMS name, pipe delimited by the comma separated RNC names. For example in this case, add the following line into this file:

```
ems11|ems11rnc111,ems11rnc112
```

- 7) Run setconfig.ksh script (refer to Step 6 of Section 5).

5.2.10 Changes to SDM Section of <hostname>.ntcdma.cfg

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 customers who are converting from AFT to SDM/CBM. For other customers, the **MTXNAME** needs to match MSCNAME. The **MTXNAME** value needs 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      99.99.99.99   sdm01        msc01        sdmuser01    sdmpass01   \
        $sdmsdir $cbmsdir      both         sdmom        0            yes          \
yes     $sdmddir $cbmddir
        1          1          N            mtxname
```

5.2.11 Changes to MGNTM MDM Section of <hostname>.ntcdma.cfg

Update this section to retrieve MGNTM MDM (PVG) data. The new or updated data is highlighted in blue color. The **PVG_LIST** was added to support files collection from CNM. **PVG_LIST** file contains the mapping between SRCID (the MSC) and the PVG. Refer to *Appendix H in Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX18* for a sample **PVG_LIST** file.

```
#
# MGNTM MDM
#
sdir=/opt/MagellanNMS/data/pmsp/group_id/closedNotSent
ddir=/opt/MagellanNMS/data/pmsp/group_id/closedSent

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

pvglist=$FLEXDAHOME/cfg/mscpvg.cfg

# MARKET  TGTDIR      SRCIP          SRCID          SRCUSER      SRCPSWD
# -----  -
#          SRCDIR      DATATYPES      TMADJ        MVSRC        DDIR
# -----  -
#          SECURERETRIEVE  SECUREDELIVER  PSWD_AUTH    PVG_LIST
# -----  -
set -A ntcdma_ntmmdm \
SD      $tdir      99.99.99.99   mtx01        username     password     \
        $sdir      ntmmmdm      0            no           $ddir        \
        1          1          N            $pvglist
```


5.2.12 Changes to PPC Section of <hostname>.ntcdma.cfg

Update this section to retrieve PPC data. The new or updated data is highlighted in blue color. New datatype – bsmview is added, the **DATATYPES** need to set to **ppcsta, bsmview**. The **BSMIP**, **BSMNAME**, **BSMUSER**, **BSMPSWD**, **BSMDIR**, and **EBSCIP** were added to support CBRS View file collection from BSM. The CBRS View file is used to generate the Passport Statistics Configuration file which is set by **PPCCFG**. Set **PPCCFG** to <path>/<MTXNAME>.<NODEID>.<CBRSBANME>.cbrs.cfg, i.e. **\$cfgdir/MTX01.NODE01.MTX01B2CBRS1.cbrs.cfg**. Set **PPCRDF** to the path where RDF is located in the Prospect DA server. It is recommended to put all RDF file of different MTX version into the \$FLEXDAHOME/cfg directory.

To upgrade existing PPC configuration:

- 1) Set **PPCRDF** to the path where RDF is located.
- 2) Set **PPCCFG** to <path>/<MTXNAME>.<NODEID>.<CBRSBANME>.cbrs.cfg, i.e. **\$cfgdir/MTX01.NODE01.MTX01B2CBRS1.cbrs.cfg**.
- 3) Set **BSMIP**, **BSMNAME**, **BSMUSER**, **BSMPSWD**, **BSMDIR**, and **EBSCIP** accordingly.

Note: createbase.exp is supply by customers and should be located in the home directory of the **BSMUSER** and should have execution permission.

```
#
# PPC
#

# Passport Statistics source directory
stasdir=/opt/MagellanMDP/data/mdp/dump/statistics

# Prospect Loader target directory
tdir=/u01/apps/WatchMark/FlexPM/Nortel/x/vendor/Nortel/MS/ftpIN/MTX11/in

# CBRS view file source directory
viewsdir=/export/home/ssflexpm

# FLEXDA config directory
cfgdir=$FLEXDAHOME/cfg

# MARKET  TGTDIR  SRCIP          SRCID          BSMID  MTXNAME
# -----  -
#          CBRSDNAME  NODEID  SRCUSER      SRCPSWD  STASRCDIR
#          -----  -
#          PPCRDF    BDFDEL  PPCCFG          DATATYPES  TMADJ  PERIOD  CHGPSWD
#          -----  -
#          SECURERETRIEVE  SECUREDELIVER  PSWD_AUTH
#          -----  -
#          BSMIP      BSMNAME      BSMUSER      BSMPSWD
#          -----  -
#          BSMDIR      EBSCIP
#          -----  -
set -A ntcdma_ppc \
SD      $tdir      99.99.99.99      mdphost      1      MTX01      \
      MTX01B2CBRS1  NODE01      mdpuser      mdppass      $stasdir      \
      $cfgdir      ":"      $cfgdir/MTX01.NODE01.MTX01B2CBRS1.cbrs.cfg  ppcsta,bsmview  0  60  Y  \
      1      1      N      \
      99.99.99.99  BSM01      bsmuser      bsmpass      \
      $viewsdir      99.99.99.99
```

5.2.13 Changes to USP Section of <hostname>.ntcdma.cfg

Update this section to retrieve USP data. The new or updated data is highlighted in blue color. Set **PASSTHROUGH** to 'Y' to retrieve USP data from CNM directly else set to 'N' to retrieve data from USP directly. The **CNMIP**, **CNMUSER**, **CNMPSWD**, and **CNMDIR** were added for CNM passthrough.

To upgrade existing USP configuration with CNM passthrough enabled:

- 1) Set **PASSTHROUGH** to 'Y' if want to retrieve USP data from CNM directly.
- 2) Set **CNMIP**, **CNMUSER**, **CNMPSWD**, and **CNMDIR** accordingly.

To upgrade existing USP configuration with CNM passthrough disabled:

- 1) Set **PASSTHROUGH** to 'N' if want to retrieve data from USP directly.
- 2) Set **CNMIP**, **CNMUSER**, **CNMPSWD**, and **CNMDIR** to *none*.

```
#
# USP
#

uspsdir=/ossinterface/oms/om05min

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

# MARKET  TGTDIR  PSRCIP          PSRCID  PSRCUSER  PSRCPSWD  PSRCDIR
# -----
#          BSRCIP          BSRCID  BSRCUSER  BSRCPSWD  BSRCDIR
# -----
#          PGMSCID      USPID      DATATYPES  TMADJ
# -----
#          SECURERETRIEVE  SECUREDELIVER  PSWD_AUTH
# -----
#          PASSTHROUGH  CNMIP      CNMUSER    CNMPSWD    CNMDIR
# -----
set -A ntcdma_usp \
SD          $tdir      99.99.99.99  usp01p     uspuser    usppass    $uspsdir   \
          99.99.99.99  usp01b     uspuser    usppass    $uspsdir   \
PGMSC01     USP01      uspom      0
          1              1              N
N              99.99.99.99  cnmuser    cnmpass    /cnmdir
```

5. Populate the `emsrnc.cfg` and `mscpvg.cfg` in `$FLEXDAHOME/cfg` if required. Refer to *Appendix H* in *Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX18* for further information on how to configure these files. Enable the write permission before editing the `emsrnc.cfg` and `mscpvg.cfg`:

```
$ chmod u+w $FLEXDAHOME/NORTEL/cfg/emsrnc.cfg
$ chmod u+w $FLEXDAHOME/NORTEL/cfg/mscpvg.cfg
```

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6. Run setconfig.ksh script

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

The following warnings may appear:

- i. Warning: Only 1 entry of rncm/rncfg per EMS (<ems>) is required when CONCAT_ON is set to "Y". Make sure only 1 entry of rncm and rncfg is configured for that particular EMS when file concatenation is enabled.
 - ii. Warning: Both rncm or rncfg configuration for <ems> are required to set CONCAT_ON to "Y". Make sure both rncm and rncfg entry for that particular EMS is with CONCAT_ON set to "Y" when file concatenation is enabled.
7. Refer to *Appendix I in Data Acquisition Tools 7.1 for Nortel AMPS/TDMA/CDMA MTX18* for cron job setup for EVDO traffic data.
 8. Start the flexda monitor

```
$ flexda start <hostname>.mon
```
 9. Start the cron job

5.2.14 Uninstall Instructions

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

```
$ crontab -r
```
3. Stop the flexda monitor

```
$ flexda stop <hostname>.mon
```
4. Go to the directory \$FLEXDAHOME/patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000

```
$ cd \  
$FLEXDAHOME/patches/7.1.16.7-TIV-PROSPECTDA-NORCDM-FP0000
```
5. Uninstall the patch.

```
$ ./patch.sh -uninstall
```
6. Restore the \$FLEXDAHOME/cfg/cbrs.cfg & \$FLEXDAHOME/cfg/ppc_sta.rdf file from backup which were created during Section 5.2.2 Step 6.
7. Restore the \$FLEXDAHOME/INSTALL/localhost/cfg/<hostname>.ntcdma.cfg file from backup which was created during Section 5.2.4 Step 2.

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8. Run `setconfig.ksh` script.

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

9. Start the flexda monitor

```
$ flexda start <hostname>.mon
```

10. Start the cron job with the `crontab.save.<date>` file which was created during Section 5.2.3 Step 2.

```
$ crontab crontab.save.<date>
```

5.3 Release Restrictions

This release is for **General availability**.

5.4 Known Issues

None.

5.5 Dependent Known Issues in the core product

None.

5.6 Useful Hint

5.6.1 Error Message When Fail to Retrieve clusterQuery

RNCCfg script has been updated to collect optional clusterQuery file for Cluster ID support. The following error message will appear when no clusterQuery file to collect:

Error occurred while retrieving optional file from \$REMOTEHOST:

Not all customers collect this optional file, thus those who do not wish to collect this optional file can ignore this error message.

6 IBM Support

6.1 Contacting IBM Support

Please use the IBM Tivoli Support website:
<http://www-306.ibm.com/software/sysmgmt/products/support/assistance.html>

7 Documentation Addendums

None.

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