

RELEASE NOTES



EXECUTIVE 2019.1

PUBLISH DATE: DECEMBER 2019

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Release Overview

Telescope Executive 2019.1 release contains enhancements and addresses issues reported by customers on the previous release of the product, Version 9.4.0.17, published in December 2018.

RELEASE VERSION	Telescope Executive 2019.1
RELEASE DATE	December 2019
RELEASE TYPE	Generally Available - Executive
DELIVERABLES	Product Release Software and Release Documentation

Release Strategy

As we build a great new foundation for Northplains, every release will focus on theme-based features and enhancements prioritized within the roadmap. The Northplains product management team bundles tasks into releases thematically so that it's clear how each release will impact your use of Telescope.

The Telescope Executive 2019.1 release is focused on the theme of workflow, ingestion & download, which has been highly prioritized based on customer feedback.

Future release themes will be based on customer communicated priorities, so please make sure you have voiced your opinions. Reach out to our team anytime at success@northplains.com.

What's New In This Release

Adobe Creative Cloud 2019 Integrations

Telescope can import Adobe InDesign® and Illustrator® files to extract page previews, text, and other elements to create detailed representations of the InDesign documents (called Component Object Views, or COVs) within the Telescope system. Plug-ins are available on the Adobe Marketplace.

Flow: Workflow Management

Flow enables businesses to dynamically coordinate people, tasks and approvals while moving assets through production workflows without wasted time or resources. It also offers robust reporting on activities and timelines to track key performance indicators while revealing opportunities for process improvement.

The workflow solution provides a full workflow suite which allows:

- User definable workflows based on Business Process Management
- User configurable workflow engine that automates conditional routing decisions
- Association with job/project metadata with assets automatically
- Automate batch processing of jobs and projects

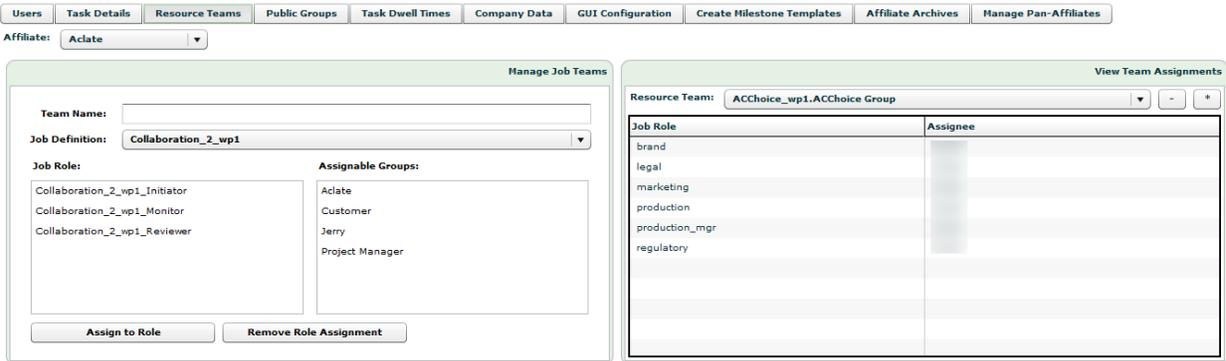
Web interface:



The screenshot shows a web interface with a table of tasks. The table has columns for SFID, Task, Item ID, Item Description, Priority, Affiliate, Task ID, Client, Channel, Product, and Brand. The first row contains the following data: SFID: 106, Task: Estimate, Item ID: (empty), Item Description: (empty), Priority: Normal, Affiliate: Aclate, Task ID: estimate, Client: Northplains, Channel: Promotions, Product: Website, Brand: Telescope. The interface also includes a 'Tasks/Page: 50' dropdown, a 'Jump To Page: 1' dropdown, and a 'Notify: On' button with several icons.

SFID	Task	Item ID	Item Description	Priority	Affiliate	Task ID	Client	Channel	Product	Brand
106	Estimate			Normal	Aclate	estimate	Northplains	Promotions	Website	Telescope

Rich client interface:



If you would like more information on the workflow solution, please contact your Account Manager.

Summary of Fixed Issues

Fixes for the following reported issues have been included in this release.

ISSUE ID	SUMMARY
NORTHHP-21218	"Not Found" Issues relating to the Download Manager in the Integration Broker
NORTHHP-15955	Dragging assets to download caused pane to open and close quickly
NORTHHP-16387	Regular Download block if Enhanced Download Permission was disabled and Aspera enabled
NORTHHP-17290	Soap API Download not working when the Rendition was invalid
NORTHHP-17594	A defect where Downloaded file was not brought up on the Finder
NORTHHP-16223	A defect where "Zip Files before download" should have been unchecked
NORTHHP-16237	A defect where Process Drop Down Menu was not selectable
NORTHHP-16378	A defect where the Uploader was left running in the background while opening downloaded file
NORTHHP-16014	A defect with the Uploader in HF16/HF17
NORTHHP-16367	A defect where upload failed if the field value used in a FMP was a * character ¹
NORTHHP-17943	A defect where PSD Imports would fail
NORTHHP-17615	Issue with state broker
NORTHHP-19604	Issue with Quicklink setup dialog box

¹ Known Issue: an error appears even though the file transfer is successful

Installation Instructions

Download updates

Download the Release Package from the Northplains Portal at <http://portal.northplains.com/>

- Access the Northplains Portal using your existing login credentials
- Telescope Release Package:

Telescope_9.5.0_40130.zip

- Transformation Platform Installer

transformation-platform-installer-1.7.0.11064-win.x86_64.zip

Introduction

Important! To ensure that no data is corrupted as part of the process, only upgrade the system when no users are logged onto the system, as part of a maintenance window.

Create a Backup

Be sure to back up your Telescope installation to another location before proceeding. If you need to reverse your changes, you will need to access your backed up files to patch them back over.

In addition, you will need the backups of your preferences files to make any updates you made. For example, back up the file `com.northplains.dbutils.xml` so you won't lose your changes if you've adjusted the retries or timeouts in that file.

Unzipping the Release File

You will find the release file for this release on the Northplains Portal. Be careful where you unzip the release file:

- Do not store or unzip this file to a directory whose path includes a space. For example, do not store it in:

C:\My Documents\.

- Do not change the folder structure of the unzipped files or move any files out of the folder.

- Ensure the folder containing the unzipped files is writable.

Additional Notes

- Grey highlighting indicates the values that you need to update
- These instructions assume an installation directory of C:\Telescope. Update this path to reflect the actual path used in your environment
- You can apply this release on top of any 9.3.x or 9.4.x release (even the 9.3.0 initial release). All installation files will be overwritten with the latest required files.
- TSWeb users and TSAdmin users should always clear their browser cache before attempting to use a new Telescope release.

Are You Upgrading from 9.3.0? Setting Up a New Telescope Installation?

This release provides a way to upgrade directly from 9.3.0, making it easier to upgrade to the latest version of Telescope. If you are upgrading any version of Telescope before this release (including 9.3.x releases), or perhaps installing a new Telescope installation, follow these steps:

1. If you are installing from scratch, follow the Installation and Configuration Guide to Install and configure the Telescope 9.3.0 release. When it is working properly, take a backup.
2. Install this release. (This release can be installed over any release since 9.3.0.)
3. If you are in a distributed environment and need to update components independently, follow the sections below to install this release on all servers. This release includes updated files for all versions after 9.3.0.
4. Upgrade and/or create the database from 9.3.0 through intervening releases to this release using DBManager. (See Upgrade the Database.)
5. Update your configuration files as required. (These files are not overwritten by the new installation, and may need updates for new features.)

Install Hub Server Fixes

Important! If you have installed any Broker (such as indexing, child indexing, graphics or ingest) on a separate server machine from the hub server, you will need to install all hub updates manually. [See Manual Updates for Brokers.](#)

If (and only if) you are running all Brokers (such as indexing, child indexing, graphics or ingest) on the same server machine as the hub:

1. Stop all Telescope brokers.
2. Unzip Telescope_9.5.0_40130.zip to a folder on Telescope Server
3. Run under Administrator privileges:

```
server.bat C:\Telescope
```

4. Update the XML version for the "MIMiX.xml" file(s) used in your hot folder configuration to 1.1 from 1.0; it should look like this after it is updated:

```
i. <?xml version="1.1" encoding="iso-8859-1" standalone="yes"?>
```

5. Start all Telescope brokers.

(If any Broker is installed on a separate machine, the BAT file will fail. For further instructions, go to Manual Updates for Brokers).

Upgrade the Database

You can update the Telescope DBMS from the Upgrade button in DBManager, which makes database updates for hot fixes as well as major releases. You can run the DBManager upgrade again and again for each hotfix release, as many times as necessary.

1. Go to the Registry Editor (regedit from a command line) and remove the registry keys under HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\North Plains Systems\Telescope\Installer\DBManager This will ensure that the database updates occur from the beginning of 9.4.0, ensuring that all database changes for the latest release are properly applied.
2. Go to the DBManager folder, under the installation directory C:\Telescope\DBManager

3. Run DBManager.exe as Administrator (by right-clicking over the executable and selecting Run as Administrator from the menu).



4. Click the Upgrade option.
1. Follow the panels to establish the correct database connection. You will be asked to specify the connection name. This is the name of the connection used by the Connection Broker, as shown in TSAdmin when , the Telescope connection name (as shown in TSAdmin when you login as System Administrator). Oracle will also require username and password for the database administration.

Note: If you do not see your ODBC connection, you may need to add it from the DSN Configuration at C:\WINDOWS\SysWOW64\odbcad32.exe. For details, see the Installation Guide.

2. Important! After the process completes, click Save to save the logs. Specify a unique file name to ensure you can find the logs for the particular date and database connection. These logs are important, and are required by Customer Support to help you should there be issues.
3. You will need to repeat this process for all active database connections.

Run the Script Install on the Web Server

1. Ensure all Telescope application instances are stopped.
2. Unzip Telescope_9.5.0_40130.zip to a folder of your choice on the Telescope Web server.
3. Open the Command Prompt as Administrator. (To run as administrator, right-click over the Command Prompt option in the Start menu and choose "Run as administrator.")
4. Change directory (cd) to the folder where you unzipped the patch release.
5. Issue the following command:

```
websrv.bat C:\inetpub\wwwroot
```

6. After you run the batch file on both the web application and the web server, find the TSWeb configuration file. The default location is:

```
C:\Telescope\Applications\TSWeb.woa\Contents\Resources\Config.plist
```

```
Back up the file and change the parameter TelescopeUploaderVersion value to "
95.0.40130": TelescopeUploaderVersion=" 95.0.40130";
```

7. Start all Telescope applications.

Run the Script Install on the Web Application Server

1. Ensure all Telescope application instances are stopped.
2. Unzip Telescope_9.5.0_40130.zip to a folder on the Telescope Web Application server.
3. Open the Command Prompt as Administrator. (To run as administrator, right-click over the Command Prompt option in the Start menu and choose "Run as administrator.")
4. Change directory (cd) to the folder where you unzipped the patch release.
5. Issue the following command:

```
webapp.bat [patch to WebApp folder like C:\Telescope]
```

6. Reindex the Solr database (For details, see the Telescope Administrator's Reference Manual; look for the section "To reindex for Solr search".)
7. Start all Telescope applications.
8. Log into TSAdmin and navigate to the Settings tab. Verify that the Video Rendition Settings (namely, Video Manager Rendition and Regular Preview Rendition) are both set to your playback proxy rendition (or are configured to your specific requirements). Typically, your installation will have the same value set for both.

Additional Configuration

This section lists additional configuration you need to do after installing (as applicable) the patches for the web server, web application server, database, and all of the brokers. (For details, see the previous section, Installation Instructions.)

The release requiring this configuration is listed in the title of each of the sections below. You need to perform all the configuration listed below for any releases newer than the release you are upgrading from.

Update the I-Piece and C-Piece Configuration (2019.1)

This release contains minor changes to the following IPieces/CPieces configuration files:

FILE:	CHANGES:
com.northplains.ipiece.audio.xml	Added m4a support
com.northplains.ipiece.video.xml, com.northplains.ipiece.video.xsd	transformation_platform_tmp_fb_share setting added
MP4 (MP4 by Transformation Platform).inf	Mp4 transformation settings updated
cpiece.dtd	Videocodec parameter added

The "configuration_files" file folder in the Telescope _9.5.0_40130.zip archive contains default configuration files (XML, XSD, INF and DTD) for the for the files mentioned above with their default installation file structure. Use these default files as a reference for updating the same configuration files in your environment. You will need to customize these files to work for your own environment, so it is recommended to compare the default files with your current configuration files and merge updates.

Update the I-Piece and C-Piece Configuration (9.4.0.17)

Numerous changes were made this release to standardize the settings in the XML files for the Audio and Video I-Pieces. For details on changes that were made, see Appendix: XML Changes for the Audio and Video I-Pieces.

The "configuration_files" file folder in the Telescope 9.4.0.17 patch contains default configuration files (XML, XSD, INF and REG) for the Video and Audio I-Pieces, and the Video and Video Playlist C-Pieces, with their default installation file structure. Use these default files as a reference for updating these configuration files in your environment. You will need to customize these files to work for your own environment, so it is recommended to compare the default files with your current configuration files and merge any updates as required.

Configuration Note for Socket Communication (9.4.0.17)

If your environment uses socket communication in TSWeb, you must update the Properties file in order for this functionality to work. Go to the web server and use a text editor to edit the following file:

```
..\TeleScope\Applications\tsweb.woa\Contents\Resources\Properties
```

Find the following line (typically at line 102):

```
custom.http.headers=|Access-Control-Allow-Origin:applicationloopback.northplains.com|Access-Control-Allow-Credentials:true|
```

Update this line to the following to ensure proper functioning of the Uploader:

```
custom.http.headers=|Access-Control-Allow-Origin:*.northplains.com|Access-Control-Allow-Credentials:true|
```

Queue Broker and Xinet File Broker (9.4.0.15)

The Queue Broker and Xinet File Broker are required to support functionality to differentiate between file renditions. For information on installing and configuring these brokers, see the appendices.

MassStore Broker (9.4.0.14)

MassStore Broker is for customers who have integrated their Telescope with MassStore. Find the MassStore Broker files separately on the Portal (look for the file, Telescope 9.4.0.14 (6838) MassStore Broker.zip

Back up these files where they reside in your Telescope installation, replace them with the new files, and restart the MassStore Broker service.

Transformation Platform 1.6 (9.4.0.13)

This release requires Transformation Platform 1.6. For instructions on how to download and configure this version, go to the release notes on the Portal.

Aspera Updates (9.4.0.12)

To protect Aspera configuration, the Aspera properties files for TSWeb and DLManager are no longer overwritten during the patch install process. Instead, administrators can manually update their Aspera configuration files with any changes in the same way as is currently done with I-Pieces:

1. Find the updated Aspera configuration files in the release folder in the following locations:

```
configuration_files\applications\DLManager.woa\Contents\Resources\aspera.prop  
configuration_files\applications\TSWeb.woa\Contents\Resources\aspera.prop
```

2. Back up the following files and then use a compare tool to compare these files with the files in your installations and merge your configuration into the updated files.

C:\Telescope\Applications\DLManager.woa\Contents\Resources\aspera.prop
C:\Telescope\Applications\TSWeb.woa\Contents\Resources\aspera.prop

(If you have no Aspera customizations, simply overwrite these files in your installation.)

3. Restart the TSWeb and DLManager applications.

Adobe Creative Cloud 2018 Upgrades (9.4.0.8)

Adobe Creative Cloud (CC) 2018 add-ons (plug-ins) were introduced in 9.4.0.8. Refer to the Telescope 9.4.0.8 release notes for information on:

- How to find the client plug-ins in the Adobe Exchange Add-ons site
- How to install the client plug-ins directly via the zxp file
- How to deploy the Telescope InDesign Server 2018 plug-in

Implement Search on Single Default Search Field (9.4.0.8)

To improve Solr search performance, we implemented an option to search within the Single Default Search field in Solr, rather than through all searchable fields. Refer to the Telescope 9.4.0.8 release notes for information on this option.

This update requires a full Solr re-index. If you are upgrading from a Telescope version before 9.4.0.8 to 9.4.0.8 or later, you need to reindex your Solr database. (See the Administrator's Guide for details.)

Multi-part Message Support for Telescope Uploader (9.4.0.7)

Communication protocols were improved this release to support multi-part messages from TSWeb to the Telescope Uploader. This change was requested because Telescope Uploader uses URL requests that are longer than the typical limits imposed by browsers (which could be as small as 2k bytes). To enable this feature, see the information in the Administrator's Guide (added to the Northplains Portal for version 9.4.0.15) under the section, "Enable Multi-part Messages for Telescope Uploader"

For releases prior to 9.4.0.17, TSWeb users needed to make changes to their browser configuration in order to allow multi-part messages and avoid security alerts. These instructions are included in the release notes for those earlier releases. For 9.4.0.17 and later, this browser configuration is no longer required.

Deploy Creative Cloud 2017 Plug-ins (9.4.0.6)

The Telescope 9.4.0.6 release notes contain instructions to deploy plug-ins for Creative Cloud 2017.

Note on QuickLinks (9.4.0.5)

If you use QuickLinks and are upgrading from before Telescope 9.4.0.5, see the section, "Supplemental instructions for implementing QuickLinks" in the Telescope 9.4.0.5 Release Notes.

Manual Updates for Brokers

If you have any Broker installed on a different machine from the Hub server, you will need to manually update all Hub Brokers by copying (patching) new files over top of existing files. The sections below provide details on how to do this. (Tables appear alphabetically by Broker, and for each broker are in reverse chronological order based on release date when last updated.)

Notes

- Important! Backups are essential. If you have not backed up the entire Telescope installation, ensure that you backup specific files before overwriting them.
- These instructions assume an installation directory of C:\Telescope. Update this path to reflect the actual path used in your environment.
- The "configuration_files" file folder in the Telescope patch may contain default configuration files (XML, XSD, INF and REG) for the I-Pieces and/or C-Pieces, with their default installation file structure. Use these default files as a reference for updating these configuration files in your environment. You will need to customize these files to work for your own environment, so it is recommended to compare the default files with your current configuration files and merge any updates as required. In the lists below, these files are marked with "(See Note Above)".

Upgrading from 9.4.0.15

If you are upgrading from the previous 9.4.0.15 release, you only need to make updates to the following Brokers:

- Graphics Broker
- Ingest Broker
- NTFS File Broker

(* All of these brokers require an update of the utils.jar file. For those listed above marked with an asterisk (*), utils.jar is the only file update required.

Follow the sections below only for these brokers. For your convenience, for each broker there is a column showing the most recent update; you only need to apply those files that have changed specifically from 9.4.0.8 to 9.4.0.9.

Authentication Broker Updates

1. Stop the Authentication Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the Authentication Broker.

The following list shows files that have been updated for the Authentication Broker from the 9.3.0 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	AuthenticationBroker.jar	2019.1

Connection Broker Updates (9.3.x only)

1. Stop the Connection Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation).
3. Copy these files from the released version and replace the files in your installation.
4. Start the Connection Broker.

The following list shows files that have been updated for the Connection Broker from the 9.3.0 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	ConnectionBroker.jar ConnectionPool.jar	9.3.3.0

DBManager Updates

1. Stop all Telescope brokers.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Unzip DBManager.zip to a folder on Telescope Server, where DBManager is installed.
4. Copy the released version of the folder into your Telescope installation folder, replacing the old folder. The following list shows files that have been updated for DBManager since the 9.3.0 release.

Path	Filename	Most Recent Update
C:\Telescope\DBManager\	DBManager.exe	2019.1
C:\Telescope\DBManager\files\extras\mssql	jsonfeatures.sql	2019.1
C:\Telescope\DBManager\files\extras\mssql	newlanglocale.sql newqueue_broker.sql new_createmetadatafield.sql new_event_model.sql ootbbase.sql solr92upgrade.sql upgcreatefks.sql upgdbversion.sql upgeditsexn.sql upgembddmeta.sql upgerror_log.sql upginteropbrkr.sql upgjsonfeatures.sql upglinkprocs.sql upgqueue_broker.sql upgsavesearches.sql upgtemplates.sql upg_createmetadatafield.sql upg_event_model.sql	9.4.0.16
C:\Telescope\DBManager\files\hotfix\mssql	9.4.0_9.4.0.sql	2019.1
C:\Telescope\DBManager\files\hotfix\mssql	9.4.0_9.4.0.xml	9.4.0.16
C:\Telescope\DBManager\files\hotfix\oracle	9.4.0_9.4.0.sql 9.4.0_9.4.0.xml	9.4.0.16
C:\Telescope\DBManager\files\icons	AI.gif AIFF.gif AVI.gif BMP.gif CSS.gif default.gif DNG.gif DOC.gif EPS.gif EPUB.gif FLA.gif FLV.gif GIF.gif HTM.gif INDD.gif JPG.gif KEY.gif MOV.gif	9.4.0.16

	MP3.gif MPEG.gif PDF.gif PLST.gif PNG.gif PPT.gif PS.gif SCITEX.gif SIT.gif	
	SWF.gif TIFF.gif TXT.gif WAV.gif WMV.gif XDOC.gif XLS.gif ZIP.gif	
C:\Telescope\DBManager\files\new\mssql	9.4.sql	2019.1
C:\Telescope\DBManager\files\new\mssql	9.4.xml	9.4.0.16
C:\Telescope\DBManager\files\new\oracle	9.4.sql 9.4.xml	9.4.0.16
C:\Telescope\DBManager\files\patches\mssql	9.1.1_9.4.0.sql 9.1.2_9.4.0.sql 9.1.3_9.4.0.sql 9.1.4_9.4.0.sql 9.2.0_9.4.0.sql 9.3.3_9.4.0.sql 9.3.4_9.4.0.sql	2019.1
C:\Telescope\DBManager\files\patches\mssql	9.1.1_9.4.0.xml 9.1.2_9.4.0.xml 9.1.3_9.4.0.xml 9.1.4_9.4.0.xml 9.2.0_9.4.0.xml 9.3.0_9.4.0.sql 9.3.1_9.4.0.sql 9.3.2_9.4.0.sql	9.4.0.16
C:\Telescope\DBManager\files\patches\oracle	9.1.1_9.4.0.sql 9.1.1_9.4.0.xml 9.1.2_9.4.0.sql 9.1.2_9.4.0.xml 9.1.3_9.4.0.sql 9.1.3_9.4.0.xml 9.1.4_9.4.0.sql 9.1.4_9.4.0.xml 9.2.0_9.4.0.sql 9.2.0_9.4.0.xml 9.3.0_9.4.0.sql 9.3.1_9.4.0.sql 9.3.2_9.4.0.sql	9.4.0.16

	9.3.3_9.4.0.sql 9.3.4_9.4.0.sql	
C:\Telescope\DBManager\files\upgrade\mssql	8.5_9.4.sql 9.0_9.4.sql	2019.1
C:\Telescope\DBManager\files\upgrade\mssql	8.4_8.5.sql 8.4_8.5.xml 8.5_9.4.xml 9.0_9.4.xml	9.4.0.16
C:\Telescope\DBManager\files\upgrade\oracle	8.4_9.4.sql 8.4_9.4.xml 8.5_9.4.sql 8.5_9.4.xml 9.0_9.4.sql 9.0_9.4.xml	9.4.0.16
C:\Telescope\DBManager\files\utils\mssql	customcolupdate.sql dbiptcsetup.sql dbxmpsetup.sql digimarcfuncrule.sql funcrulesetup.sql newprimarykeys.sql parsefileinfo.sql Track Admin Changes by User ID - revert.sql Track Admin Changes by User ID.sql UpdateSQL.sql	9.4.0.16
C:\Telescope\DBManager\files\utils\oracle	createaudittriggers.sql customsqlupd.sql dbxmpsetup.sql parsefileinfo.sql	9.4.0.16
C:\Telescope\tools\DBManager\Xerces\	xerces-c_2_8_VC10.dll	9.4.0.16

Distribution Broker Updates

1. Stop the Distribution Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the Distribution Broker.

The following list shows files that have been updated for the Distribution Broker from the 9.3.0 release (in chronological order).

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	utils.jar	9.4.0.9
C:\Telescope\DPieces	com.northplains.dpiece.MigrateNAttachRendition.jar	2019.1
C:\Telescope\DPieces\	com.northplains.dpiece.ApplyFMPolicy.jar com.northplains.dpiece.ApplyFMPolicy.xml com.northplains.dpiece.MigrateNAttachRendition.xml com.northplains.dpiece.SendToFTP.jar com.northplains.dpiece.SendToFTP.xml com.northplains.dpiece.SendToLocal.jar com.northplains.dpiece.SendToLocal.xml	9.4.0.7
C:\Telescope\	DistributionBroker.jar	2019.1

Graphics Broker Updates

1. Stop the NTFS File Broker and Graphics Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the NTFS File Broker and Graphics Broker.

The following list shows files that have been updated for the Graphics Broker from the 9.3.0 release.

PATH (ON THE GRAPHICS BROKER)	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	GBWorker.exe gb.exe	2019.1
C:\Telescope\	GraphicsBrokerProxy.jar	9.4.0.17
C:\Telescope\IPieces\	AudioIPiece.dll VideoIPiece.dll	2019.1
C:\Telescope\	GBClient.jar TPBridge.dll TPConnector.dll TPConnector.XmlSerializers.dll	2019.1
C:\Telescope\IPieces\config \	com.northplains.ipiece.video.xml com.northplains.ipiece.video.xsd com.northplains.ipiece.audio.xml	2019.1
C:\Telescope\IPieces\config \	com.northplains.ipiece.audio.xsd (See Note Above)	9.4.0.16
C:\Telescope\CPieces\	Indesign CPiece.dll	2019.1
C:\Telescope\	utils.jar	9.4.0.9
C:\Telescope\IPieces\	XML IPiece.dll QT IPiece.dll Flash IPiece.dll Digimarc IPiece.dll Aspose IPiece.dll	2019.1

	Digital Photography IPiece.dll Document IPiece.dll EQMediaRichCORE IPiece.dll Illustrator COV IPiece.dll ImageMagick IPiece.dll InDesign IPiece.dll Metadata IPiece.dll News IPiece.dll PostScript IPiece.dll QuarkXPress IPiece.dll VizViewIPiece.dll XMP IPiece.dll	
C:\Telescope\IPieces\	AVI Ipiece.dll FileInfo IPiece.dll FLIPFACTORY IPiece.dll	9.4.0.5
C:\Telescope\	imagetox.exe	9.3.4.2
C:\Telescope\	Aspose.Pdf.lic Aspose.Slides.lic Aspose.Words.lic	9.3.4.0
C:\Program Files (x86)\ Xinet\FullPress\	imagetox.exe	9.3.4.0
C:\Telescope\CPieces\	Digimarc CPiece.dll	9.3.1.0
C:\Telescope\CPieces\Digimarc\	PNG (Portable Network Graphics).inf TIFF (Tag Image File Format).inf (See Note Above)	9.3.1.0

The following list shows files related to the Graphics Broker that have been updated on the Telescope Hub server, for releases since the 9.4.0 release (no changes were made in 9.3.x).

Path (on the Telescope Hub server)	File name	Most recent update
C:\Telescope\server\IPieces\	AudioIPiece.dll VideoIPiece.dll	2019.1
C:\Telescope\	TPBridge.dll TPConnector.dll TPConnector.XmlSerializers.dll	2019.1

C:\Telescope\server\IPieces\ config\	com.northplains.ipiece.audio.xml com.northplains.ipiece.audio.xsd com.northplains.ipiece.video.xml com.northplains.ipiece.video.xsd (See Note Above)	9.4.0.16
C:\Telescope\server\IPieces\ 	News IPiece.dll PostScript IPiece.dll QT IPiece.dll QuarkXPress IPiece.dll VizViewIPiece.dll XMP IPiece.dll	2019.1
C:\Telescope\server\IPieces\ 	FLIPFACTORY IPiece.dll	9.4.0.3
C:\Telescope\server\ 	Aspose.Pdf.lic Aspose.Slides.lic Aspose.Words.lic	9.4.0.2

InDesign Broker Updates

1. Stop the InDesign Broker Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. If you use InDesign Server and are updating from before Telescope 9.4.0.5, see the section "Update the InDesign Server Plug-In" in the 9.4.0.5 release notes for details on how to update this plugin.
5. Start the InDesign Broker.

Note: The "configuration_files" file folder for this release contains default configuration files (INF and CMD) for the InDesign C-Pieces, with their default installation file structure. If these C-Pieces do not work as expected after this upgrade, use these default files as a reference for updating your environment. You will need to customize these files to work for your own environment, so it is recommended to compare them with your current configuration files and merge any updates as required.

The following list shows files that have been updated for the InDesign Broker from the 9.4.0 release (no changes were made in 9.3.x).

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	IndesignBroker.exe	2019.1
C:\Telescope\NPSPlugins\InDesign\MAC_CC\	Telescope.IDCC_2014_mac.zxp	9.4.0.4

Indexing and Child Indexing Brokers Updates

1. Stop the Child Indexing Brokers and Indexing Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation).
3. Copy these files from the released version and replace the files in your installation.
4. Start the Indexing Broker and the Child Indexing Brokers.

The following list shows all the files that have been updated for the Child Indexing and Indexing Brokers from the 9.3.1 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	search.jar DBProcedures.jar index.jar	2019.1
C:\Telescope\	utils.jar	9.4.0.9
C:\Telescope\	ChildIndexingBroker.jar com.northplains.dbutils.xml * * If you have made changes to this file (for example, to adjust the retries or timeouts), you will need to copy over your changes from the backed up file. com.northplains.dbutils.xsd	9.4.0.6
C:\Telescope\	smimix.jar	9.4.0.5
C:\Telescope\	dbutils.properties tsp.jar	9.3.4.8

Ingest Broker Updates

1. Stop the Ingest Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Update the XML version for the "MIMiX.xml" file(s) used in your hot folder configuration to 1.1 from 1.0; it should look like this after it is updated:

```
<?xml version="1.1" encoding="iso-8859-1" standalone="yes"?>
```

5. Start the Ingest Broker

The following list shows files that have been updated for the Ingest Broker from the 9.4.0 release (no changes were made in 9.3.x).

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	GraphicsBrokerProxy.jar IngestBrokerProxy.jar	9.4.0.17
C:\Telescope\	DBProcedures.jar GBClient.jar IngestBroker.jar	2019.1
C:\Telescope\	ib.exe	9.4.0.15
C:\Telescope\	IBClient.jar utils.jar	9.4.0.7
C:\Telescope\IPieces\	Aspose IPiece.dll	2019.1

Interoperability Broker Updates

1. Stop the NPS Interoperability Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the NPS Interoperability Broker.

The following list shows files that have been updated for the NPS Interoperability Broker from the 9.4.0 release (no changes were made in 9.3.x).

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\IOPieces\	XFolder.jar	9.4.0.16
C:\Telescope\	InteropBroker.jar	9.4.0.11
C:\Telescope\	DBProcedures.jar rest.jar	2019.1
C:\Telescope\	utils.jar	9.4.0.9
C:\Telescope\	IBClient.jar iob.exe	9.4.0.7

MassStore Broker Updates

MassStore Broker is for customers who have integrated their Telescope environment with the Masstech MassStore engine.

To update this Broker:

1. Stop the NPS MassStore Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the MassStore Broker.

The following list shows files that have been updated for the NPS MassStore Broker from the 9.4.0 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\MassStore\lib	MassStoreBroker.jar	9.4.0.14
C:\Telescope\	mimixapi.jar	9.4.0.10

NTFS File Broker Updates

1. Stop the NTFS File Broker and the Graphics Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the NTFS File Broker and the Graphics Broker.

The following list shows files that have been updated for the NTFS File Broker from the 9.3.0 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	FBConverter.exe NTFS File Broker.exe TPBridge.dll TPConnector.dll TPConnector.XmlSerializers.dll	2019.1
C:\Telescope\	FileBrokerProxy.jar	9.4.0.17
C:\Telescope\	FBClient.jar	9.4.0.16
C:\Telescope\CPieces\ VideoPlaylistCPiece\	M4V (M4V by Transformation Platform).inf MKV (MKV by Transformation Platform).inf MOOV (QuickTime by Transformation Platform).inf MP4 (MP4 by Transformation Platform).inf	9.4.0.16

	MPEG (MPEG2 by Transformation Platform).inf MXF (MXF by Transformation Platform).inf VOB (VOB by Transformation Platform).inf WMV (Windows Media by Transformation Platform).inf (See Note Above)	
C:\Telescope\CPieces\ VideoCPiece\	MP4 (MP4 by Transformation Platform).inf	2019.1
C:\Telescope\CPieces\ VideoCPiece\	M4V (M4V by Transformation Platform).inf MKV (MKV by Transformation Platform).inf MOOV (QuickTime by Transformation Platform).inf MPEG (MPEG2 by Transformation Platform).inf MXF (MXF by Transformation Platform).inf VOB (VOB by Transformation Platform).inf WMV (Windows Media by Transformation Platform).inf (See Note Above)	9.4.0.16
C:\Telescope\	utils.jar	9.4.0.9
C:\Telescope\CPieces\ InDesign\	EPS (Adobe Encapsulated PostScript File).cmd EPS (Adobe Encapsulated PostScript File).inf IDML(Adobe InDesign Markup Language).cmd IDML(Adobe InDesign Markup Language).inf JPEG (Adobe Joint Photographics Experts Group).cmd JPEG (Adobe Joint Photographics Experts Group).inf PDF (Adobe Portable Document Format).cmd PDF (Adobe Portable Document Format).inf XML (Adobe XML).cmd XML (Adobe XML).inf	9.4.0.7
	cpiece.dtd (See Note Above)	
C:\Telescope\CPieces\ VideoCPiece\	AudioCPiece.dll VideoCPiece.dll VideoPlaylistCPiece.dll Playlist CPiece.dll PPC CPiece.dll Indesign CPiece.dll ImageMagick CPiece.dll EQMediaRichCORE CPiece.dll	2019.1

	Digital Photography CPiece.dll Digimarc CPiece.dll VizViewCPiece.dll XML CPiece.dll XMP CPiece.dll	
C:\Telescope\CPieces\	FF CPiece.dll FFPlaylist CPiece.dll	9.4.0.5
C:\Telescope\CPieces\ ImageMagick\	BMP (Bitmap file).inf GIF (Graphics Interchange Format).inf PNG (Portable Network Graphics).inf PSD (Adobe Photoshop).inf TIFF (Tag Image File Format).inf (See Note Above)	9.4.0.5
C:\Telescope\CPieces\ VideoCPiece\	cpiece.dtd	2019.1
C:\Telescope\CPieces\ VideoCPiece\	config_dir.reg	9.4.0.5
C:\Telescope\CPieces\ VideoPlaylistCPiece\	COMM(Stitching - Transformation Platform).inf config_dir.reg cpiece.dtd (See Note Above)	9.4.0.5
C:\Telescope\	Aspose.Pdf.lic Aspose.Slides.lic Aspose.Words.lic	9.3.4.0
C:\Telescope\CPieces\ VizViewCPiece\	BMP (VizView Bitmap File).inf CMYK.icc cpiece.dtd EPSF (VizView Encapsulated PostScript Format).inf JPEG (VizView Joint Photographics Experts Group).inf PNG (VizView Portable Network Graphics).inf sRGB.icm TIFF (VizView Tag Image File Format).inf (See Note Above)	9.3.4.0
C:\Program Files (x86)\Xinet\FullPress\	imagetox.exe	9.3.4.0

Queue Broker

Installation instructions for the Queue Broker are available in the Appendix, Appendix: Install/Update the Queue Broker.

1. Stop the Queue Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the Queue Broker.

The following list shows files that have been updated for the Queue Broker from the 9.4.0.6.1 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	QueueBroker.jar	9.4.0.15
C:\Telescope\Tasks\MD5\oracle	NPS_XiNet_trig.sql tsp_update_md5.sql	9.4.0.15

Session Broker Updates (from 9.3.x)

1. Stop the Session Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the Session Broker.

The following list shows files that have been updated for the Session Broker from the 9.3.0 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	sesb.exe	2019.1

Zoom Broker and Zoom Builder Updates (from 9.3.x)

1. Stop the Zoom Builder and Zoom Broker.
2. Back up the files listed below. (Copy them to a different location, or back up your entire Telescope installation.)
3. Copy these files from the released version and replace the files in your installation.
4. Start the Stop the Zoom Builder and Zoom Broker.

The following list shows files that have been updated for the Zoom Builder and Zoom Broker from the 9.3.0 release.

PATH	FILE NAME	MOST RECENT UPDATE
C:\Telescope\	zb.exe ZBWorker.exe	2019.1
C:\Telescope\	ZBroker.exe ZoomBuilder.exe	9.3.3.0
C:\Telescope\	Zoom Broker.exe	9.3.1.0

APPENDIX:

XML Changes for Audio and Video I-Pieces

Audio I-Piece

- You can find the Audio I-Piece XML file in a subdirectory of the Graphics Broker called "IPieces." By default, at C:\Telescope\IPieces\config\com.northplains.ipiece.audio.xml
- For detailed descriptions of these options, see the updated Telescope 9.4.0.17 Video and Audio Transformation Guide.
- Note that when you update this file, you must make sure you keep the values for the following required settings: connection_name, transformation_platform_endpoint, transformation_platform_endpoint_alt, transformation_platform_tmp_out_path

The following table shows settings that were renamed or added this release (and the 9.4.0.16 release).

UPDATED SETTING	ORIGINAL SETTING
audioBitrate	audio_bit_rate
audioChannels	audio_channels
audioCodec	preferred_audio_codec
audioCodecFlags	audio_codec_flags
audioSamplingRate	audio_sample_rate
audioSampleSize	audio_samplesize
ffmpegCommandOverride	(This is a new setting)
fileNamePrefix	preferred_proxy_prefix
mapAllStreams	(This is a new setting)
migrationPolicy	preferred_proxy_migration_policy
supported_types	supported_types_proxy

targetFileFormat	preferred_proxy_format
------------------	------------------------

Video I-Piece

- You can find the Video I-Piece XML file in a subdirectory of the Graphics Broker called "IPieces." By default, at C:\Telescope\IPieces\config\com.northplains.ipiece.video.xml
- For detailed descriptions of these options, see the updated Telescope 9.4.0.17 Video and Audio Transformation Guide.
- Note that when you update this file, you must make sure you keep the values for the following required settings: connection_name, transformation_platform_endpoint, transformation_platform_endpoint_alt, transformation_platform_tmp_out_path

The following table shows settings that were renamed or added this release (and the 9.4.0.16 release).

UPDATED SETTING	ORIGINAL SETTING
audioCodec	preferred_audio_codec, plus audio_codec_flags
audioSamplingRate	audio_sample_rate
ffmpegCommandOverride	(This is a new setting)
mapAllStreams	(This is a new setting)
rendition_id	proxy_rendition_id
targetFileFormat	preferred_proxy_format
videoCodec	preferred_video_codec, plus video_codec_flags

APPENDIX:

Install/Update the Queue Broker

Installing the Queue Broker involves copying the files to the Telescope base directory, creating the registry entries (qb.reg may have been supplied). The required database tables have already been added with the 9.4.0.6.1 release.

To install the Queue Broker:

1. Unzip the zipped Queue Broker package, Telescope_QueueBroker_9.4.0.15-9.4.0.6961.zip.
2. The following files should have been provided in the zip file, it is recommended that they be installed in the Telescope installation folder; for example D:\Apps\TeleScope.
 - o QueueBroker.jar - the java code
 - o qb.exe - wrapper
 - o qbwrapper.xml - wrapper configuration
 - o config\qb.reg - registry entries for the Queue Broker
3. Edit the qb.reg file for the environment, in particular the HUBIP, CONNECTION, and the entries in the CLASSPATH. Then run the file. See the section below for details on the registry key settings.
4. Install the service by running the full path to the qb executable with the i (install) option. For example:

```
D:\Apps\Telescope\QB\qb.exe -i
```

5. Ensure the two tables, qb_queue and qb_processes, are already in your Telescope DBMS. (They should have been installed with the 9.4.0.6.1 release.)

If you are running an Oracle RDBMS, use the scripts provided in Tasks\MD5\oracle from your DB tool of choice to update the NPS_XiNet_trig script on ACCESS_HISTORY

1. Execute the registry file qb.reg to populate the values under HKLM\Software\Wow6432Node\North Plains Systems\Queue Broker if not already present.
2. Start the service.
3. Inspect the log file for errors.
4. Test the installation by populating the tables with a test process and entering a queue entry for the ping test operation. For example, (remember to replace CONNECTION with the correct connection name):

For SQL Server:

```
INSERT INTO QB_PROCESSES (process, type, name, location, param, payload_location, active) values ('ping test', 'java', 'pingDB', 'com.northplains.QueueBroker.QBroker', 'String', 'cmd', 1);  
INSERT INTO QB_QUEUE values (1,'Active','ping test', 'CONNECTION', NULL, GETDATE());
```

For Oracle:

```
INSERT INTO QB_PROCESSES (process, type, name, location, param, payload_location, active) VALUES ('ping test', 'java', 'pingDB', 'com.northplains.QueueBroker.QBroker', 'String', 'cmd', 1);
```

```
INSERT INTO QB_QUEUE VALUES (1, 'Active', 'ping test', 'CONNECTION', NULL, SYSDATE);
```

After a minute the row should show a status of "Success" and the logs will show details.

1. Examine the log and the qb_queue table for success. It should report the current version of Telescope.
2. Insert rows for setup of the additional processes needed for MD5 generation for the FPO volume, these statements are for both SQL Server and Oracle:

```
INSERT INTO QB_PROCESSES (process_name, process_type, name, location, process_parameter, input_location, payload_location, active, process_output, broker_id) VALUES ('GBTMD5', 'shell', 'D:\Apps\Telescope\Tasks\MD5\gbt.bat', 'D:\Apps\Telescope\GBTTest\', 'D:\Apps\Telescope\Temp\script{id}.txt', 'D:\Apps\Telescope\Temp\{replace2}.txt', NULL, 'D:\Apps\Telescope\Temp\script{id}.txt', 1, 'D:\Apps\Telescope\Temp\gbt.log', '1');
```

```
INSERT INTO QB_PROCESSES (process_name, process_type, name, location, process_parameter, input_location, payload_location, active, process_output, broker_id) VALUES ('GBTsqlMD5', 'sql', 'tsp_update_md5', NULL, 'Int Int String', 'D:\Apps\Telescope\Temp\{replace2}.txt', NULL, 1, 'D:\Apps\Telescope\Temp\sqllog{replace2}.txt', '1');
```

To Remove the Queue Broker

To remove the Queue Broker follow the steps below:

1. Stop the Queue Broker Process
2. Run the uninstall command to the wrapper with the full path. For example,

```
D:\Apps\Telescope\qb.exe -u
```

3. Run regedit and remove the HKLM\Software\Wow6432Node\North Plains Systems\Queue Broker registry entries
4. Delete the following files:
 - o qb.exe
 - o QueueBroker.jar
 - o config\com.northplains.broker.queue.xml
 - o Config\com.northplains.broker.queue.xsd
5. Drop the tables qb_queue and qb_processes from Database.

Queue Broker Registry Keys

When the Queue Broker is installed, a new key is created for it in the Windows registry:

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\North Plains  
Systems\QueueBroker\CurrentVersion]
```

The registry key defines values that affect the execution of the Queue Broker, as summarized in the following table.

NOTE: Registry keys are only read at computer startup. If you change them, you need to reboot the machine.

KEY	DESCRIPTION	DEFAULT VALUE
CLASSPATH	The Java JVM class path setting. This setting must include the full path to the libraries required by the JVM, including the following jar files: QueueBroker.jar, jtids-1.2.5.jar, SessionBrokerProxy.jar, SESBClient.jar, ConnectionPool.jar, odbc5.jar, plus any additional jar files to be used in java requests	
HUBIP	The IP, hostname, or fully qualified domain name of the Telescope Hub server.	
HUBPORT	The port number of the Telescope Hub server. Typically 12345	
JVM_HEAP_SIZE	Each Java application has a default heap size. If a particular application uses a lot of memory, the heap size, specified in megabytes, can be changed via this variable. For example, if you want a heap size of 512 megabytes, then type "512M" (without the quotes).	Recommended maximum setting is 1024M.
LOGFILE	The path to Queue Broker log file.	Default is <install directory>\logs\qb.log.
LOGLEVEL	The level of message logging in the log file. Valid values are: "LOG_DEBUG" (very verbose, use only for short time spans), "LOG_INFO", "LOG_NOTICE", "LOG_WARNING", "LOG_ERR", and "LOG_CRIT" (critical errors only).	If omitted, the default is LOG_NOTICE.
IIO_HOST	Queue Broker's Host Name (or IP). If not set, it uses the local IP. If you want to use a fully-qualified name for the IIO_HOST registry key (rather than an IP address), instructions are provided under the "Firewall Configuration" section in the Telescope Installation and Configuration Guide for Windows Server Edition.	

IIOB_PORT	Message Broker's listening port. If omitted, Graphics Brokers use the system assigned port.	
CONNECTION	The name (as defined in cb_data) for the default database for the Queue Broker to connect to.	
LICENSE	The type of licensing used - "USER" to use a content creator license - "BROKER" to use the Queue Broker license	
BROKER_ID	The identifier for the Queue broker if multiple brokers are needed to run against the same database.	
THREADS	The maximum number of threads that will run at the same time.	
PREFSML_FILE	The file name and path to the Queue Broker's PrefsML file.	Default value is: <install directory>\com.northp lains.broker.queue.xml .

Certified Platform Matrix

Telescope	Executive 2019.1
SERVER	One of the following operating systems: 64-bit OS X 10.10.5 Yosemite or higher (up to macOS 10.12 Sierra) with Java 1.8 Red Hat Enterprise Linux (RHEL) Server 64-bit version 6 or 7 CentOS Linux 64-bit version 6.5 - 7.2
CLIENT	Telescope Pilot requires at a minimum 64-bit OS X Yosemite 10.10.5 Other client software requires at a minimum OS X Mountain Lion 10.8.5