

# MicroStrategy 10.5 Upgrade

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## **Version Control**

Version		Date	Author	Comments
Product	Document			
MicroStrategy 9.4.x to 10	v1.00	7/28/2015	Vishwajeet	Base Version
Secure Enterprise			Mishra	
Upgrade				
		8/10/2015	Ajay Kumar	Updated
	V2.0	7/15/2016	Souvik Ghosh	Upgrade to 10.4
	V3.0	11/28/2016	Souvik Ghosh	Upgrade to 10.5

## **Applicability**

Business/ Region affected	ALL
Platform(s)	RedHat Enterprise Linux
Operating System version	ALL
Security Model Tier	ALL
CAP	N/A
VTMID	N/A
VTM TAPL	N/A
CATE Collaboration URL	MicroStrategy Engineering SharePoint Portal
ERBI in Citi Collaborate	https://collaborate.citi.net/groups/erbi

## **Certification Matrix**

<u>Technology Environment Certification Matrix</u>

RDBMS	ALL Citi certified RDBMS
Version Control Tools	SVN
Java Version	Java 7
.NET Frame work	N/A



#### Introduction

CitiData Global ERBI Platform Engineering – MicroStrategy is publishing Release Notes for MicroStrategy 10.2.x & 10.4.x Secure Enterprise upgrade to version 10.5.

#### **Intended Audience**

This document is intended for the vendor software support, MicroStrategy Business Intelligence application implementation communities and anyone with a vested interest in this solution. Please email comments/questions to \*CitiData Global ERBI Platform Engineering – MicroStrategy.

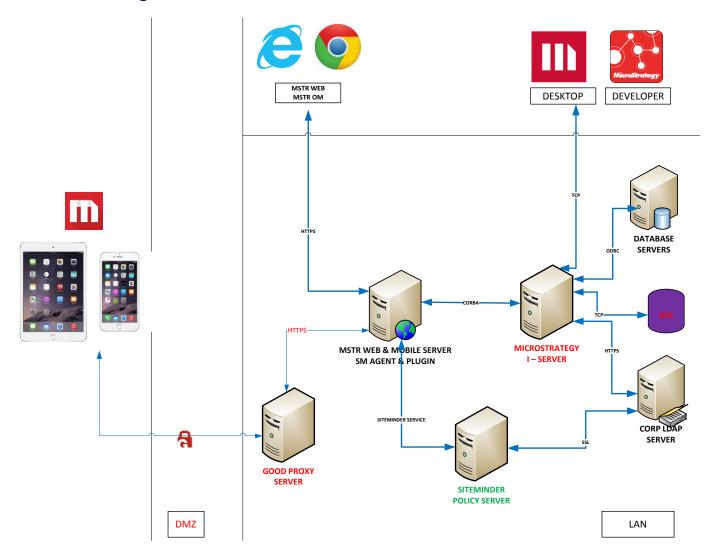
#### Overview

MicroStrategy Secure Enterprise Platform A.k.a MSTR 10.5 is the latest toolset introduced by MicroStrategy. This document does cover upgrade methodology and involved steps.

MicroStrategy version 9.4.1 should be upgraded to 10.2 first before upgrading to 10.5



### **Architecture Diagram**



### MicroStrategy 10 Server Prerequisites

- ✓ MicroStrategy version 9.4.1 should be upgraded to 10.2 first before upgrading to 10.5
- ✓ Redhat Enterprise Linux 6.x Operating System.
- ✓ Functional ID access on the RHEL server where MicroStrategy is installed.
- ✓ Valid Product License Key.
- ✓ Maximum Open Cursors parameter set at least 1500 at MetaData Oracle database.
- ✓ X-11 Terminal Software installed and exported on your desktop.
- ✓ MSTR Metadata, HL, ST schema credentials.
- ✓ Complete backup of MSTR MetaData, HL, ST and MicroStrategy Installed folder before upgrade
- ✓ Shut down Intelligence Server on all nodes if it in the cluster before proceeding with the upgrade

#### Note:

• Any web customizations such as images etc need to backed up and restored after upgrade.



• If you have created any mobile device configurations, or saved any images from the MicroStrategy Photo Uploader widget, those configurations and images are deleted during the upgrade unless you manually back them up before the upgrade and restore them after the upgrade.

#### MicroStrategy 10.5 MetaData Upgrade approach

- ✓ **UpScale Upgrade:** In this upgrade approach you will be deactivating exsiting MSTR 10.2/10.4 instance and install MicroStrategy 10.5 Secure Enterpirse on same folder where MSTR 10.2/10.4 was installed. Once you finish the MicroStrategy 10.5 Secure Enterpirse install then follow the below outlined upgrade steps make system ready.
- ✓ Parallel Upgrade: In this approach you will be restoring backup of MSTR 10.2/10.4 Secure Enterpirse Metadata on other database and also installing MicroStrategy 10.5 on some other server then creating new I-Server by using existing Metadata. Once both of thing is available then following below outlined upgrade steps make system ready for use as new feature provided by product

#### MicroStrategy 10.5 BI suite deployment

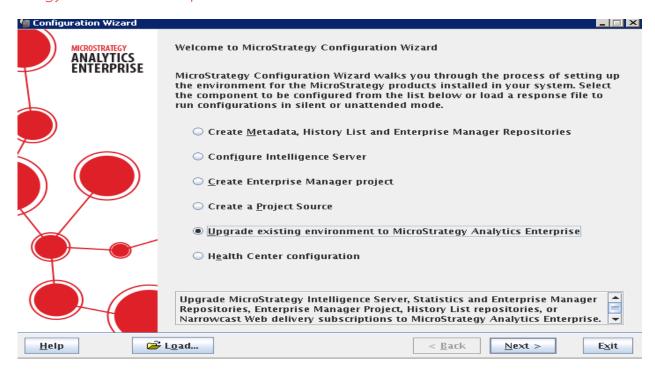
✓ Refer MicroStratgey 10.5 BI Platform Deployment – RedHat Linux Document avaible at below Sharepoint Link: MicroStrategy 10.5 server build

### MicroStrategy 10.2.x/10.4.x to 10.5 MetaData Upgrade

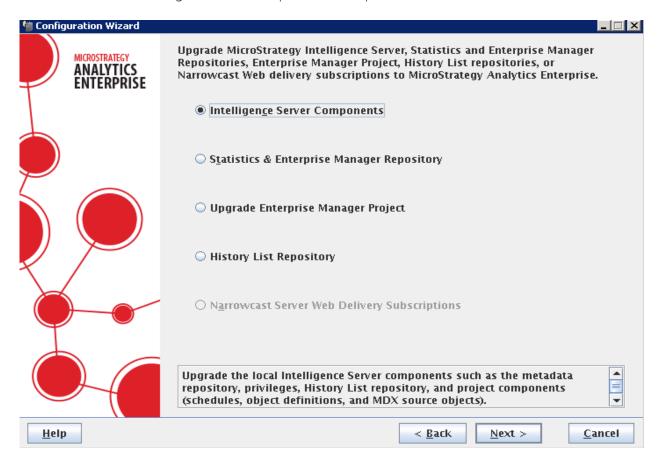
Once binary installation of MicroStrategy 10.5 Secure Enterpirse is in place by following any of approach (Upscale or Parallel) you have to update the Metadata, Projects, Statistics and History lists database. This procedure creates new tables and updates metadata tables to support new features available in MicroStrategy 10.4 Secure Enterpirse.

- ✓ Ensure all projects are unlocked before proceeding with upgrade.
- ✓ Login to RHEL Server and switch to FID.
- ✓ Start X-11 Terminal software and export your display variable (export DISPLAY=IP Address:0.0).
- ✓ Navigate bin folder where MicroStratgey 10.5 Secure Enterpirse installed (/<MSTR Home>/bin).
- ✓ Run command mstrcfgwiz, it will start Configuration Wizard then select radio button "Upgrade Exisiting Environment to MicroStrategy Analytics Enterprise" and press Next button as shown below.





✓ Select radio button "Intelligent Server Component" then press Next button, as shown below.



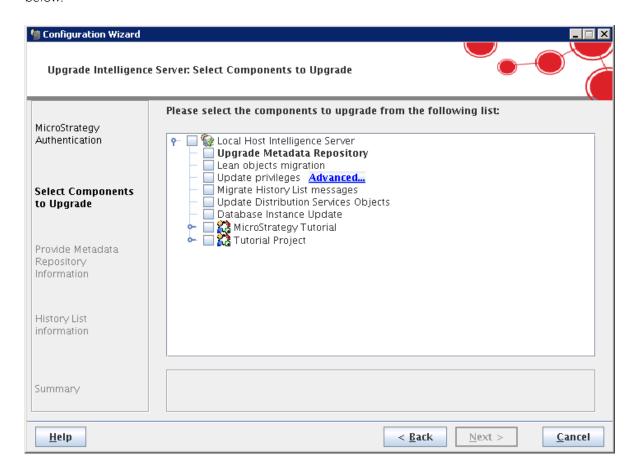




✓ Feed in Administrator equalient User Name and Password then press Next button, as shown below.

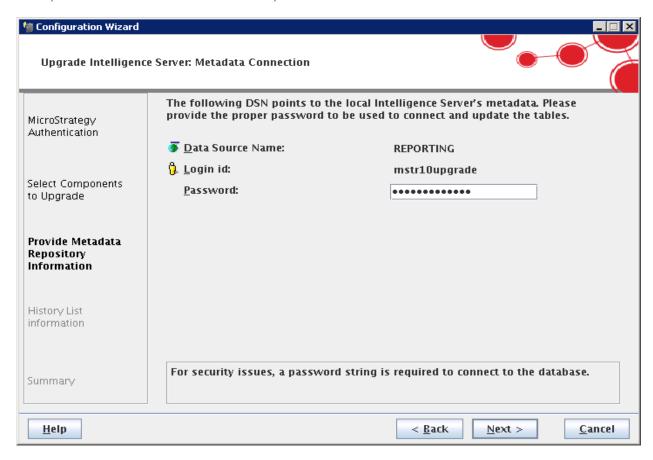


✓ Select "Lean Object Migration" and "Update Privelege" check box then press Next button, as shown below.



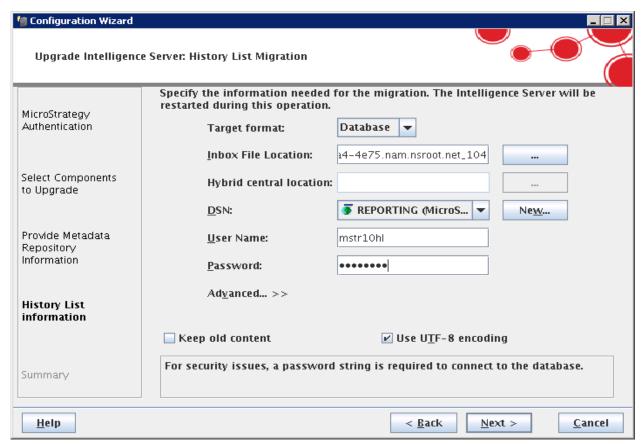


✓ Feed password of Metadata schema then press Next button, as shown below.

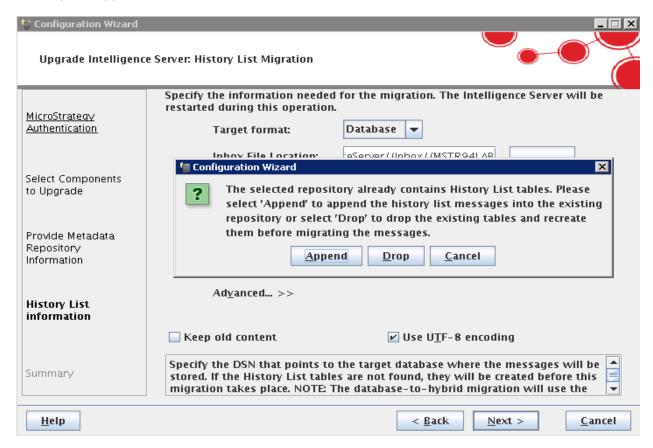


✓ Feed Inbox file location and password of History List schema, select "keep old content" check box then press Next button, as shown below.



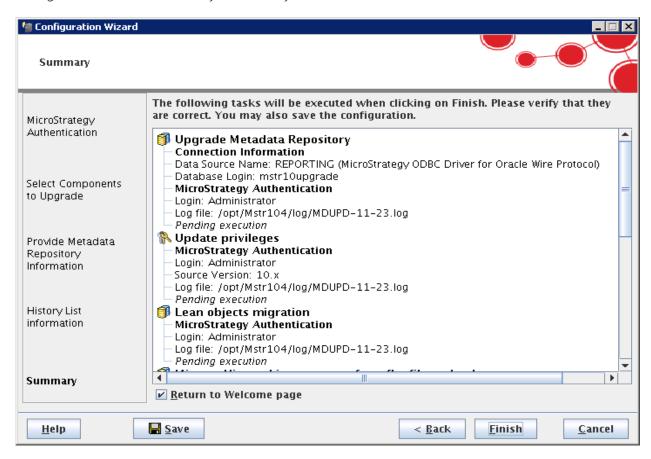


✓ Please press Append button so that it will create new coloum and add data, as shown below.





✓ Configuration Wizard will show you summary, as shown below.



- ✓ This will take 15-30 min or more depend on MetaData size then it show completed message as shown below and Return button will be highlighted.
- ✓ You can review log (/<MSTR Home>/log/MDUPD-\*.log) or Keep backup copy for any further reference.

## MicroStrategy 10.5 Project Upgrade

After successful completion of MSTR 10.2.x/10.4.x MetaData Upgrade you have to Upgrade all projects by performing the procedure that follows as below. This procedure creates and updates metadata tables to support new features available in MicroStrategy 10.4 Secure Enterpise.

- ✓ Login to RHEL Server and switch to FID.
- ✓ Start X-11 Terminal software and export your display (export DISPLAY=IP Address:0.0).
- ✓ Navigate bin folder where MicroStratgey 10.4 installed (/<MSTR Home>/bin).

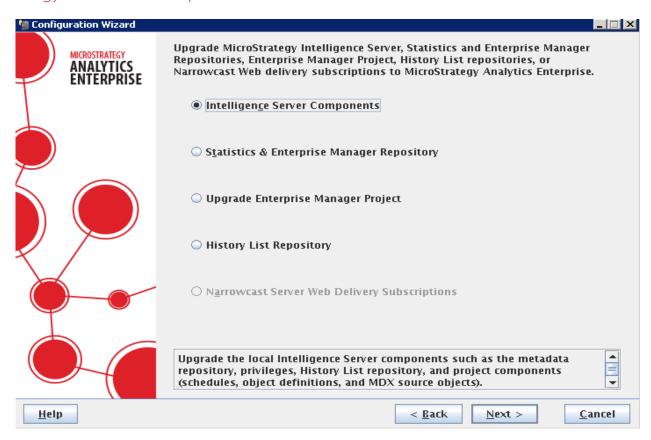


✓ Run command mstrcfgwiz, it will start Configuration Wizard then select radio button "Upgrade Exisiting Environment to MicroStrategy" and press Next button as shown below.

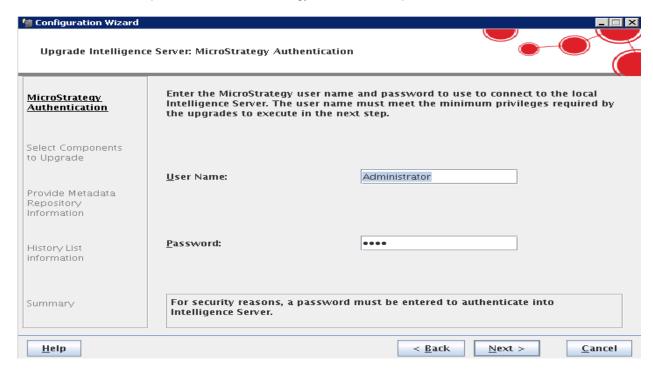


✓ Select radio button "Intelligent Server Component" then press Next button, as shown below.



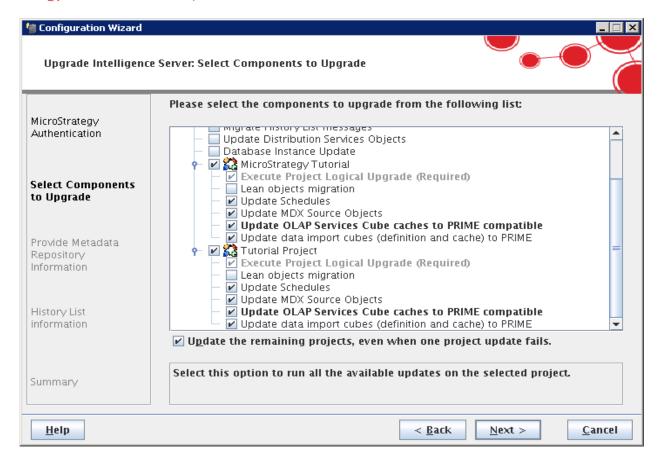


✓ Feed user name and password of MicroStrategy I-Server then press Next button, as shown below.



✓ Select project and uncheck last two option and press next, as shown below.





- ✓ It will show summay page as per you selection f projects, press Finish button to start upgrade of projects, as shown below.
- ✓ This will take 15-30 min or more depend on Projects size then it show completed message as shown below and Return button will be highlighted.
- ✓ You can review log (/<MSTR Home>/log/MDUPD-\*.log) or Keep backup copy for any further reference.

## MicroStrategy 10.5 Secure Enterprise Client Upgrade

✓ Ensure all MSTR Client upgraded as same as server version in order to avoid any compartibility issue and take maximum advantage of new release feature.

### MicroStrategy 10.5 Secure Enterprise Upgrade Verification

```
✓ Login on RHEL server and check I-Server process by following below steps.

root 22573 1 0 Nov23? 00:10:39

/opt/Mstr105/install/IntelligenceServer/bin/MSTRSvr -w
/opt/Mstr105/IntelligenceServer -t status-iserver.xml
```

✓ Login on RHEL server and check I-Server process by following below steps \$ ./mstrctl -s IntelligenceServer gs

/opt/Mstr105/install/lib/libMSTRSvr2.so -n CastorServer

- ✓ Login on RHEL server and check I-Server port by following below steps

  \$ netstat -an |grep 34952
  tcp 0 0 0.0.0.0:34952 0.0.0.0:\*
- ✓ Launch MSTR Desktop client tool and login to MSTR I-Server.

LISTEN

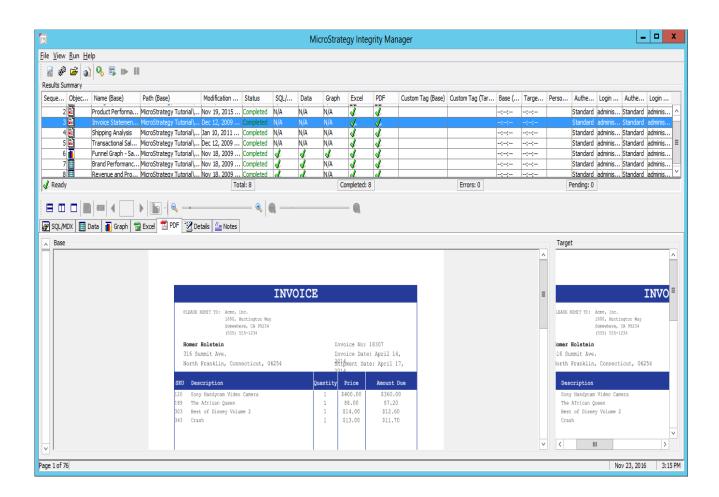


✓ Download WAR/EAR files from cross environment (/xenv/MicroStrategy/X/) and deploy MicroStrategy.war, MicroStrategyWS.war and MicroStrategyMobile.war on WebSphere application server launch MSTR Web or MSTR Web Server Admin url at browser and login

http://<WebServerName>:8080/MicroStrategy/servlet/mstrServerAdmin http://<WebServerName>:8080/MicroStrategy/servlet/mstrWeb

#### MicroStrategy 10.5 upgrade Integrity Manager test

- ✓ Perform quick IM test between 10.2/10.4 and 10.5 projects to ensure the upgraded reports/dashboards have same data/formatting across 2 versions if you have earlier metadata available for test.
- ✓ While performing the test we noticed minute formatting mismatch between 10.2 and 10.5 projects which may be ignored under naked eye as IM perform pixel based comparison of both reports. This mismatch was also noted between 10.2 and 10.4 reports.





- ✓ The format mismatch is notced only in PDF export title for dashboard and document, not in grid reports
- ✓ Vendor confirmed slight mismatch is expected to be seen.

#### Downgrading metadata projects

✓ Downgrading a MicroStrategy metadata or project to any previous product version is not supported. Once you update the project metadata to the latest version, you CANNOT downgrade to earlier product versions. Therefore, backing up the metadata is an essential step in the upgrade process as it allows you to revert to a backup version of the metadata, if necessary, to obtain pre-update versions of the projects it contains.

#### **Contacts**

✓ MicroStrategy Engineering - \*CitiData ERBI Global Platform Engineering - MicroStrategy

#### References

✓ CitiData Platform Engineering – MicroStrategy SharePoint : https://catecollaboration.citigroup.net/domains/deveng/debi/ERBI/Microstrategy/default.aspx