



Maintenance Guide for FAP and IBM Cognos Controller 10.1

Nature of Document: **Guideline**

Product(s): **IBM Cognos TM1 10.2 and IBM Cognos
Controller 10.2**

Area of Interest: **Financial Management**

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1 Introduction

FAP is designed to trickle data changes from Controller to FAP automatically – however – structure changes are not trickled automatically. Structure changes include changes to accounts, companies, extended dimensions, etc. FAP must be manually updated for structure changes. This manual update is discussed below.

1.1 Purpose

This document will provide guidelines to setting up a maintenance plan for FAP and IBM Cognos Controller.

1.2 Applicability

IBM Cognos Controller 10.1 and TM1 9.5

1.3 Exclusions and Exceptions

There are no known exceptions and exclusions at the time this document was created.

2 Access to FAP Client

The FAP client can be accessed on the Controller Server – from the Start Menu – All Programs/IBM Cognos 10/IBM Cognos Controller/ IBM Cognos FAP

Figure 1 shows the IBM Cognos FAP software

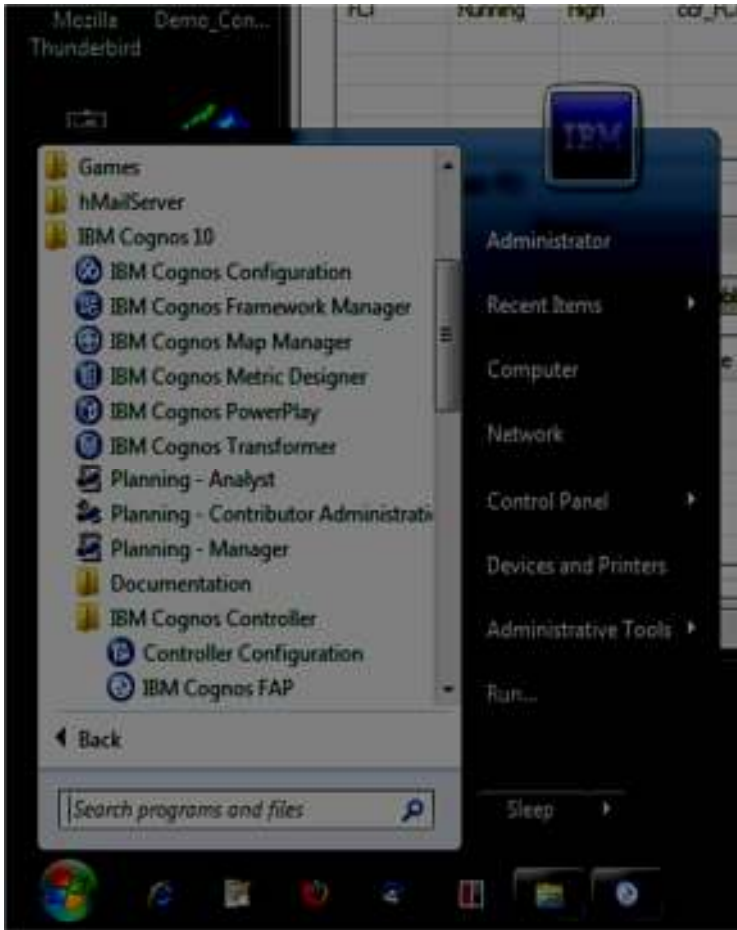
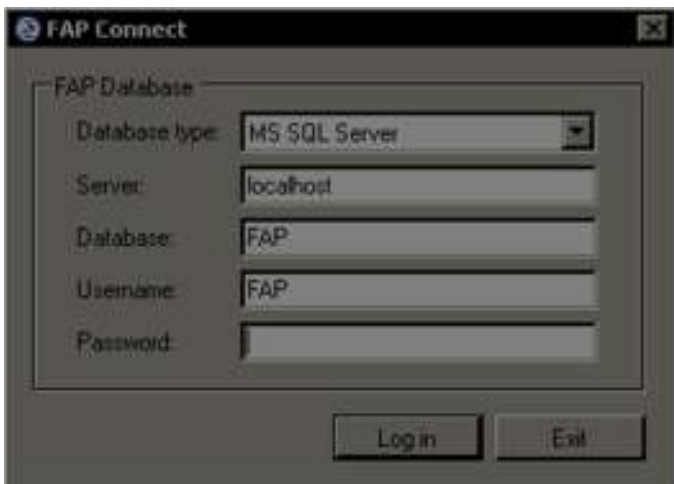


Figure 2 shows the FAP Login



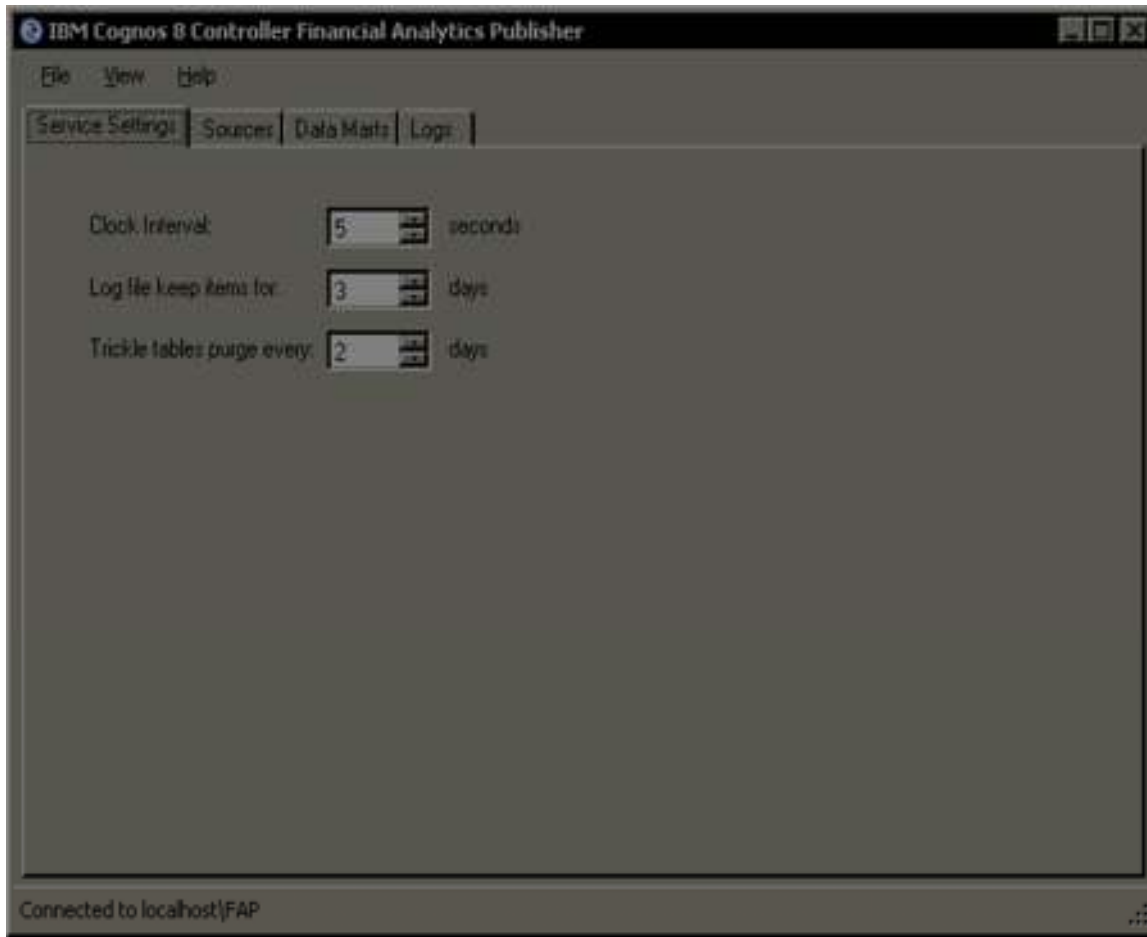
Service settings allow you to manage factors that might have an impact on performance and hard disk space. You can modify how often the different service settings should be run by using the Service

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Settings tab. Details relating to each setting can be found in the FAP Users Guide.

Service Settings

The settings on the Service Settings tab have not been changed beyond the defaults



Service settings allow you to manage factors that might have an impact on performance and hard disk space. You can modify how often the different service settings should be run by using the Service Settings tab. Details relating to each setting can be found in the FAP Users Guide.

3 Updating Structures

FAP is designed to trickle data changes from Controller to FAP automatically – however – structure changes are not trickled automatically. Structure changes include changes to accounts, companies, extended dimensions, etc. FAP must be manually updated for structure changes. This manual update is discussed below.

Figure 4 shows the FAP Client when Structure Changes are needed. The FAP client will indicate on both the Data Marts and Logs tab when structure updates are needed:

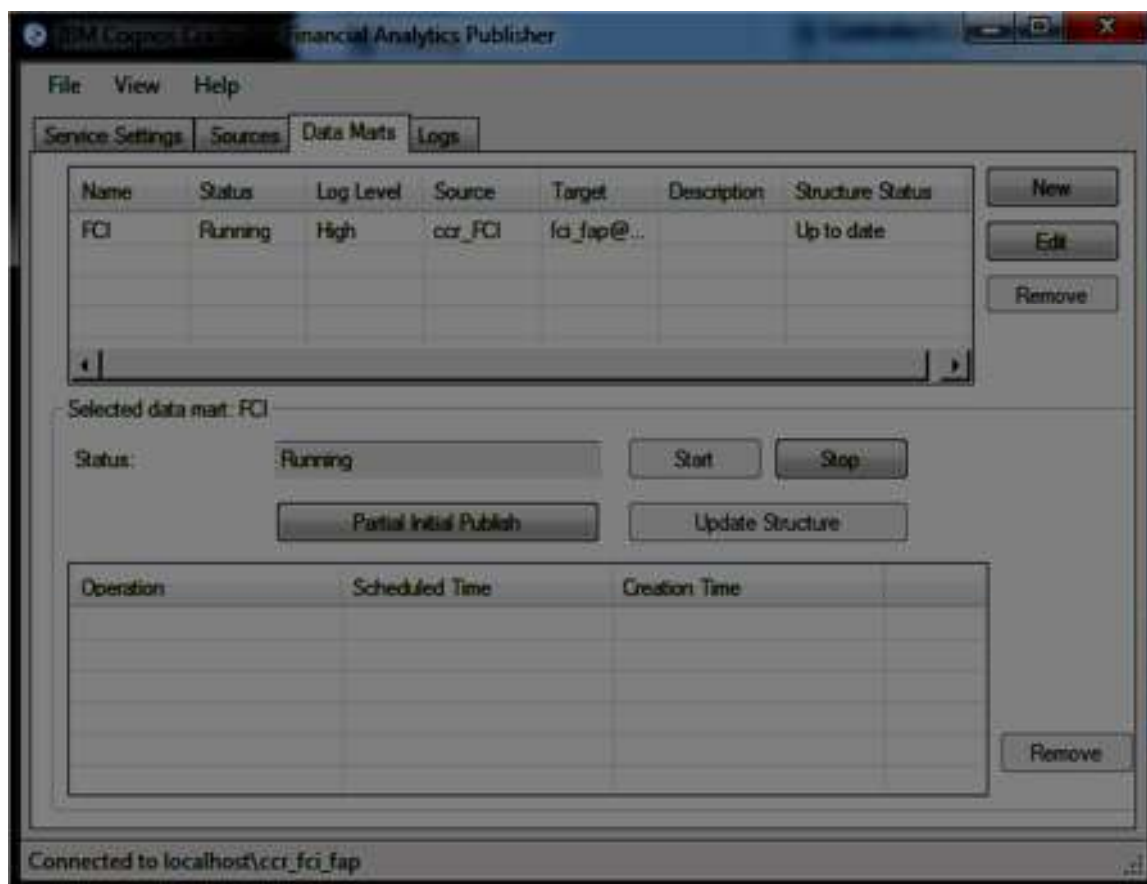


Figure 5 shows the Logs tab including where additional details can be found



4 Manual Structure Update

Once it is noted that FAP requires a structure update – you can initiate a full or partial initial publish. The partial initial publish only affects the period or periods you select. You can view the progress of the structure update on the Logs tab:

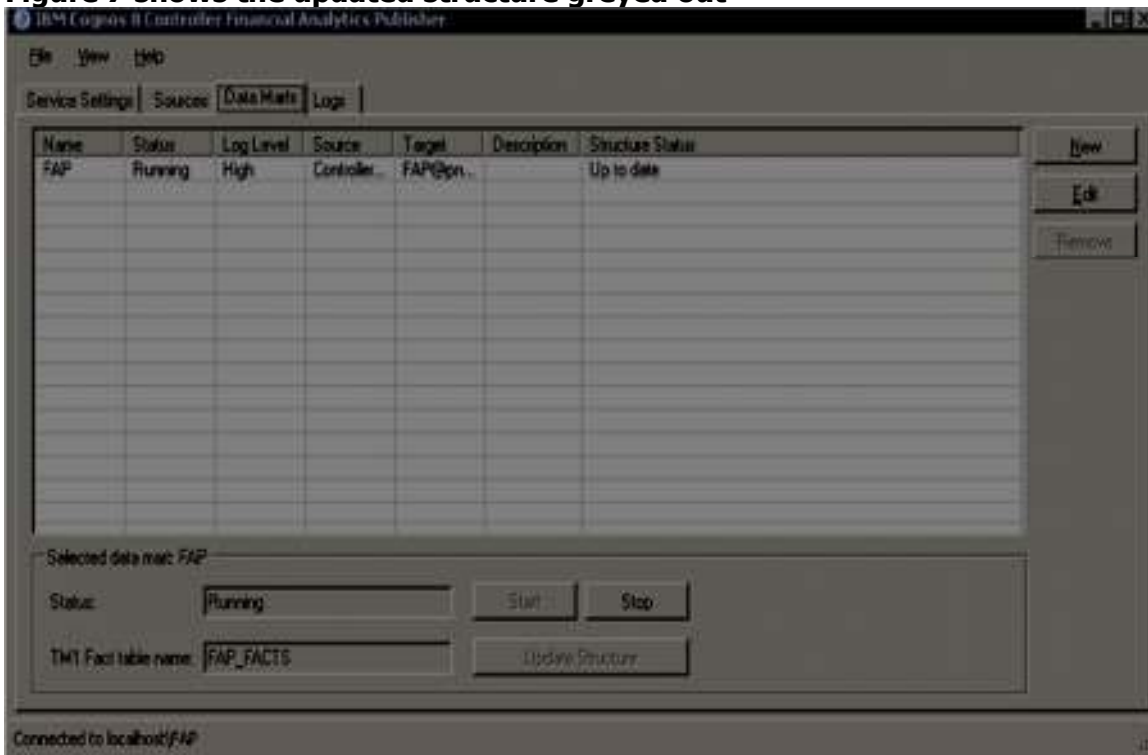
Figure 6 shows the Log Status progress

Time	Type	Object	Operation	Severity	Description
5/23/2011 3:47:30 PM	Log	FAP Service	Snapshot taken	INFO	FAP Service Log Maintenance
5/23/2011 3:42:57 PM	Data Mart	FAP	Update structure	INFO	Finished updating structure in Cube.
5/23/2011 3:42:57 PM	Data Mart	FAP	Update structure	INFO	All structures in update list updated.
5/23/2011 3:42:57 PM	Data Mart	FAP	Update structure	INFO	Security for Counts Company supergroup updated.
5/23/2011 3:42:56 PM	Data Mart	FAP	Update structure	INFO	Security for Origin Company supergroup updated.
5/23/2011 3:42:56 PM	Data Mart	FAP	Update structure	INFO	Security for Company supergroup updated.
5/23/2011 3:42:51 PM	Data Mart	FAP	Update structure	INFO	Security for Account supergroup updated.
5/23/2011 3:42:33 PM	Data Mart	FAP	Update structure	INFO	Account structure added to update list.
5/23/2011 3:42:33 PM	Data Mart	FAP	Update structure	INFO	Company structure added to update list.
5/23/2011 3:42:33 PM	Data Mart	FAP	Update structure	INFO	Start updating structure in Cube.
5/23/2011 2:01:32 PM	Data Mart	FAP	Update publish	INFO	Account structure changed in ccr.
5/23/2011 1:58:42 PM	Data Mart	FAP	Update publish	INFO	Account structure changed in ccr.
5/23/2011 1:58:22 PM	Data Mart	FAP	Update publish	INFO	Account structure changed in ccr.

Once the Structure Update completes – the Structure Status will equal “Up to date” on the Data Marts

tab

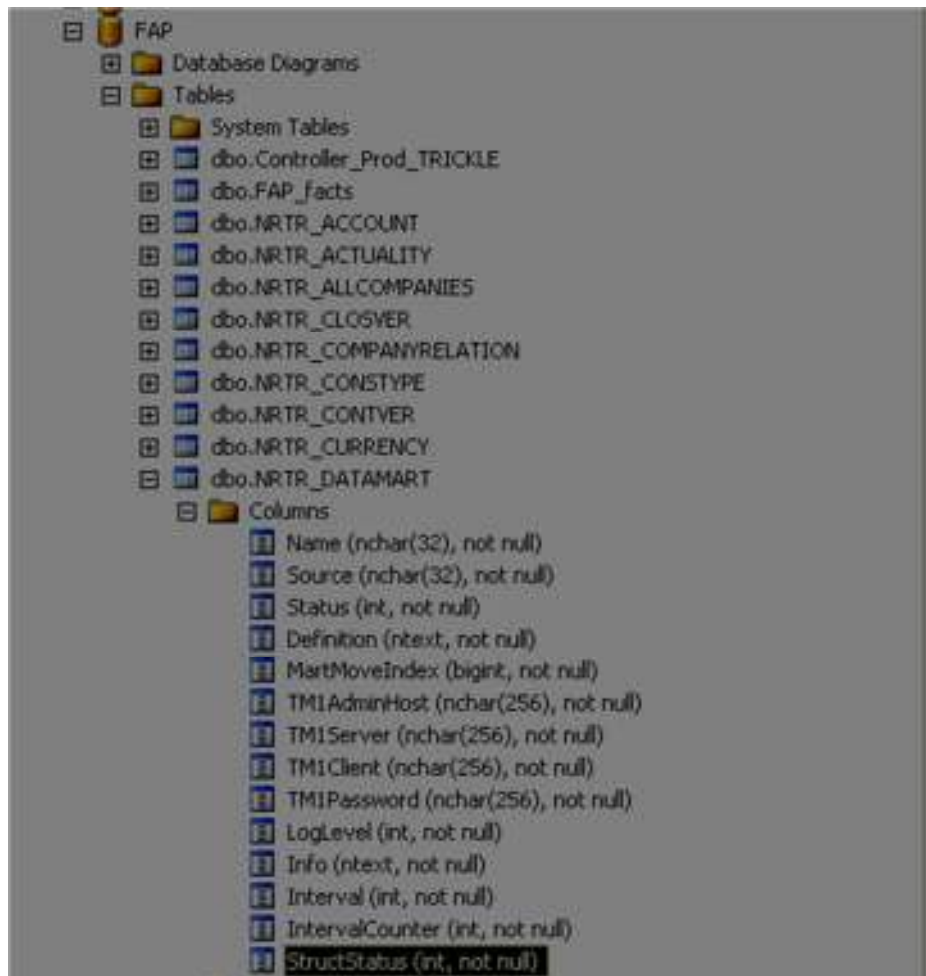
Figure 7 shows the updated structure greyed out



5 Event Studio notification of the need to update structures

Some clients choose to configure an IBM Cognos Event Studio notification to alert them when structures need updating in FAP.

Figure 8 shows the FAP database field that can be used for the notification:



NRTR_Datamart.StructStatus

When structures are updated – the value of this field = 10

Figure 9 shows the database table and structStatus

Dimension	Form/Account	Form/Account	Form/Account	Form/Account	Form/Account	Form/Account	Form/Account	Form/Account	Form/Account	Form/Account
Account	001	001	001	001	001	001	001	001	001	001

An event can be configured to send an alert or email when this field value $<> 10$. This event can be configured to send an email or alert to an FAP Admin – so that they are aware of the need for a Structure Update. The Structure Update itself must be manually performed.

6 Scenarios that will trigger the update structure button to become active on the FAP Client

As background information - the FAP Service will check the version on certain tables in the IBM Cognos Controller database concerning the dimensions. A new version could depend on several actions. For the account dimension (forms/accounts), the following CCR actions updates the version:

1. Account added/changed/removed (including a simple name change)
2. Account moved/added to another form.
3. Form added/changed
4. The FAP Service does not know exactly what type of change has been made. Therefore the update does almost the same things as in Initial Publish. A simple name change of an account will trigger the update process.

Table 1 shows the dimensions that are updated as part of the FAP process

Controller Dimension	Updated Via
Account	Updated during Structure Update
Company	Updated during Structure Update
<Ext Dim 1> - <Ext Dim 4>	Updated during Structure Update
Period	Updated on Data
Actuality	Not Updated – only updated via change of Data Mart definition
Currency Code	Updated during Structure Update
Transaction Currency Code	Updated during Structure Update
Consolidation Type	Not Updated – only updated via change of Data Mart definition
Manual Journal Type/Closing Version	Updated during Structure Update
Automatic Journal Type/Contribution Version	Updated during Structure Update
Original Company	Updated during Structure Update
Counter Company	Updated during Structure Update, Updated on Data

Journal Number	Updated on Data
Counter Dimension	Updated during Structure Update

Updated on data - The FAP service checks the period, counter company and journal number on each data record and add new members into TM1 when needed.

Example: A data with a new period is trickled, then the FAP service adds the new period into TM1 before the data is published.

An update is done in two steps:

1. New children are added. This is done to have receivers on new data that are trickled. The updates structures button in FAP client is active.
2. User triggers a rebuild of the changed dimensions, which the FAP service performs.

7 Monitor FAP Service

Administrators should periodically monitor the Logs and Data Marts tab in the FAP client – to ensure the FAP service is up and running correctly.

Below is an example of a notation that an error has occurred – requiring an Initial Publish

Figure 10 shows the FAP log

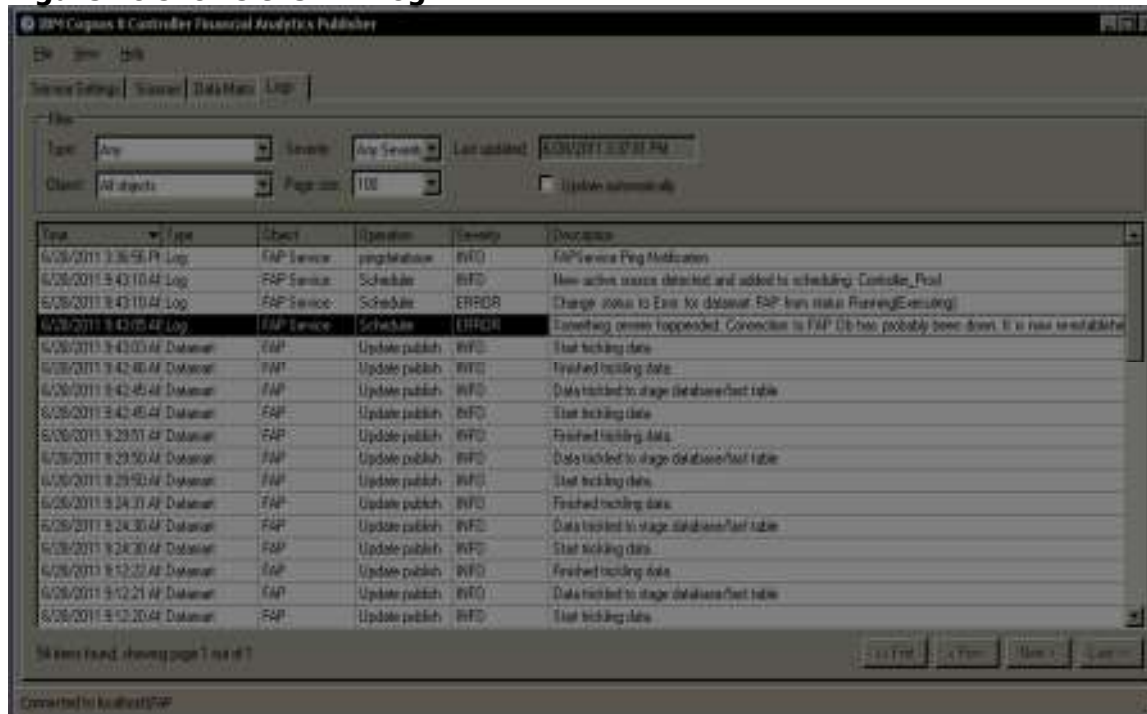
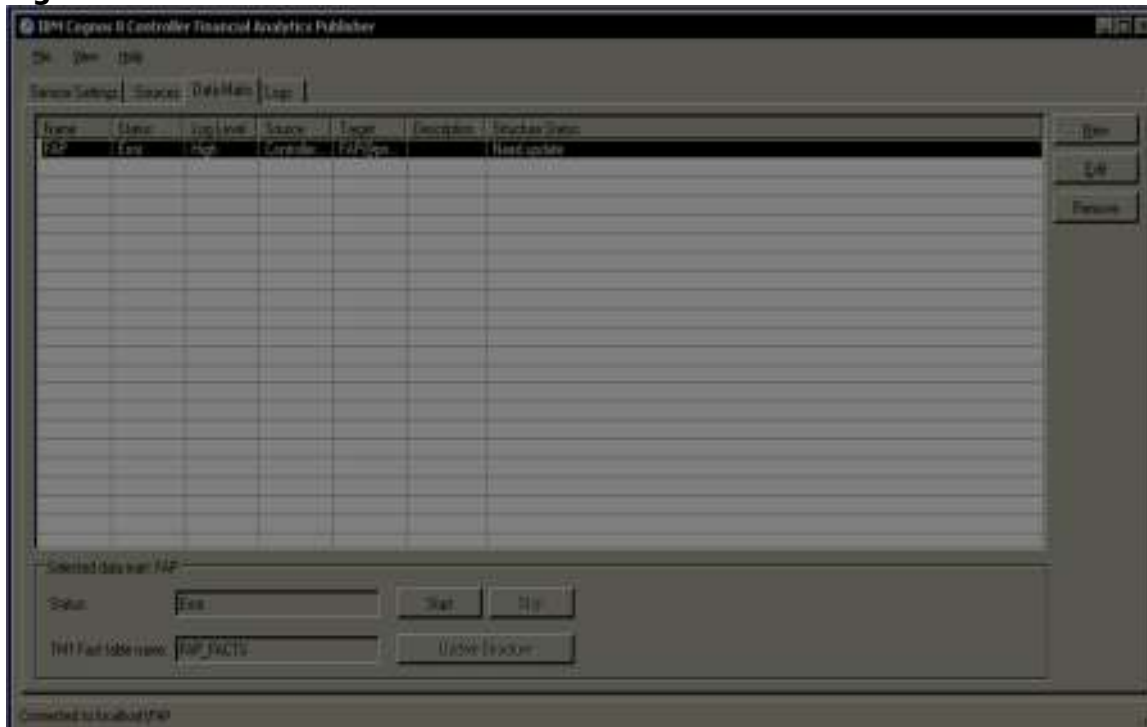
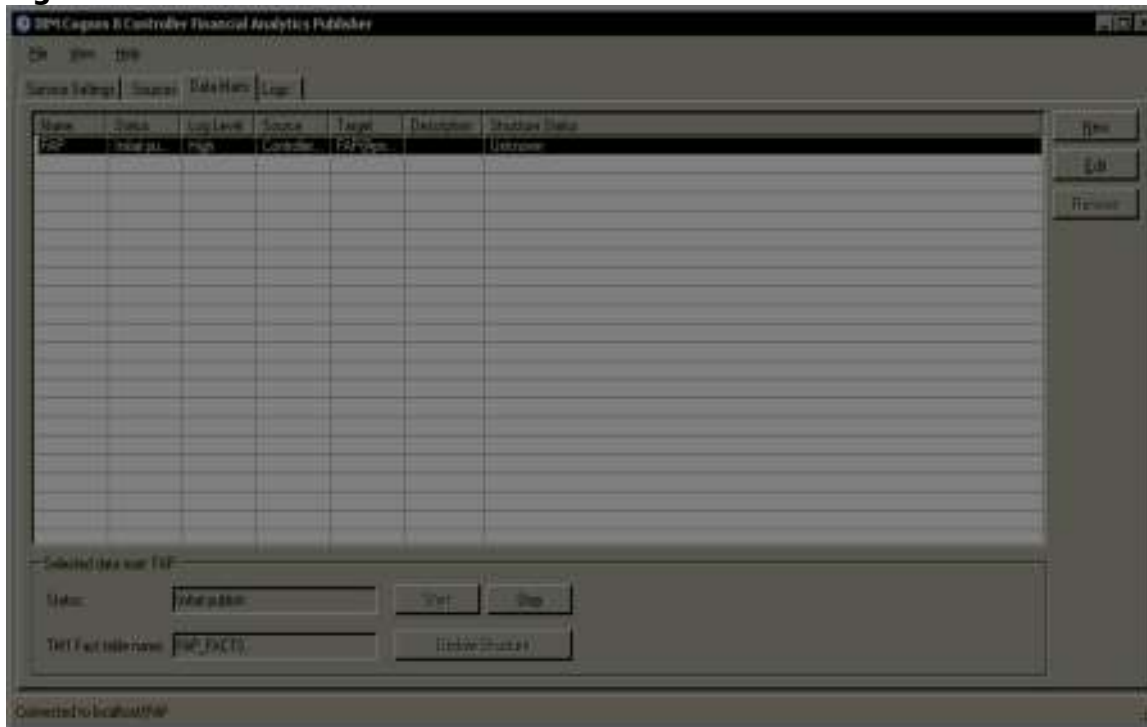


Figure 11 shows the datamart with a status error

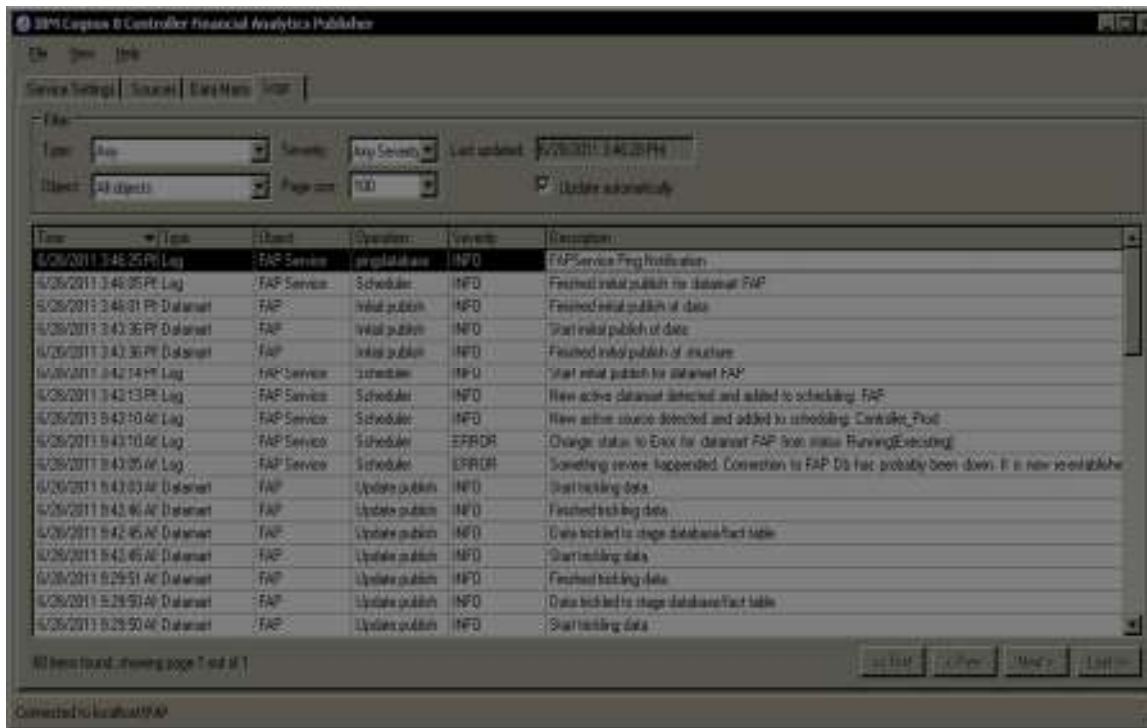
In order to get the FAP service running – press the Start button – this will kick off an Initial Publish

After hitting the Start button – the Status registers as 'Ready for Publish' for a short while
The Status will then change to Initial Publish

Figure 12 shows datamart started

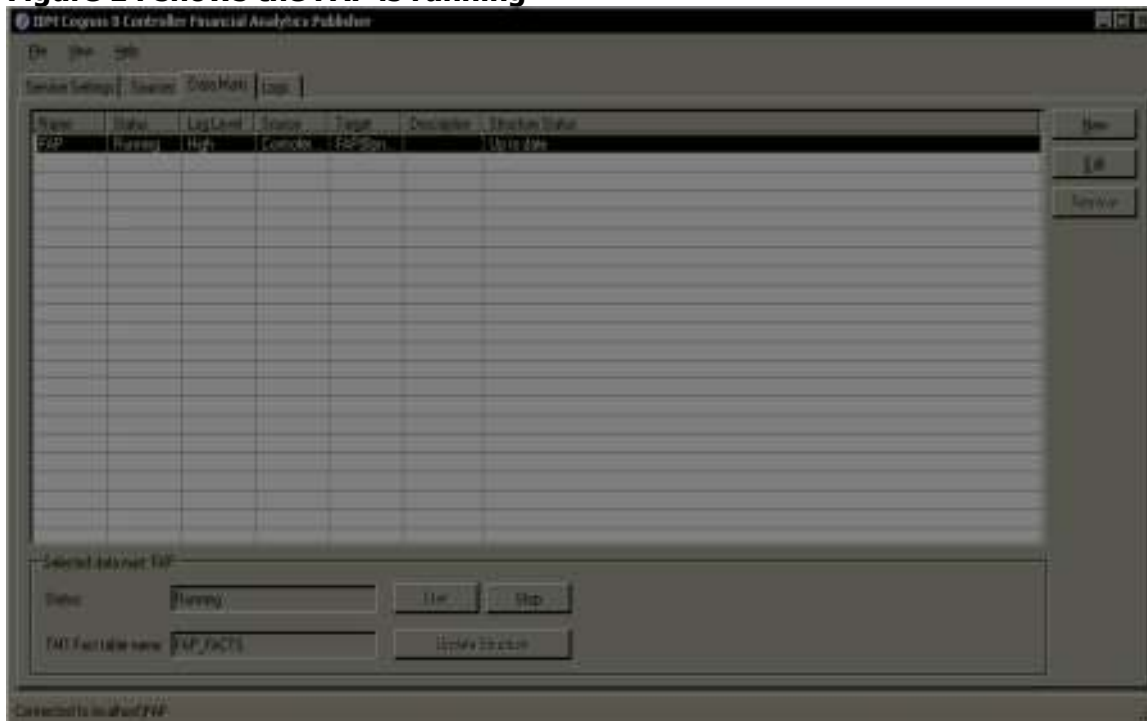
The Log can be used to monitor the activities and will indicate when the Initial Publish is complete

Figure 13 shows the error code from FAP log



After the IP has completed – the Status will indicate 'Running' on the Data Marts tab – the Structure Status is noted as 'Up to date'

Figure 14 shows the FAP is running



8 Ensure all account are on an Active Form

Note that in IBM Controller 10.1.x, a form with all accounts is sometimes needed to prevent data loss in FAP. Accounts can be added to any active form in Controller. During the initial FAP implementation – a special form was created to house all accounts – to ensure that all accounts are included on at least one active form:

Figure 15 shows the forms created

Code	Name - Group
TS	FAP - All Accounts Form
BS01	Balance Sheet - Detailed
PL01	Profit and Loss Statement - Detailed
FA01	Fixed Asset Rollforward
AAS	Alton Statistics
SS01	All Stats
AJS	Joliet Statistics
AKCS	Riverside Statistics
ALBS	Lawrenceburg Statistics
ASCS	Sioux City Statistics
AURS	Aurora Statistics
BGCS	Black Gold Casino Statistics
HSBS	Bangor Statistics
PENN	Perryville Statistics
BSLS	Bay St Louis Statistics
BTNS	Boontown Statistics
BWSS	Bulkwhackers Statistics
CRS	Casino Rouge Statistics
CTS	Charlestown Statistics
MRES	MResort Statistics
HCPN	Grantville Casino Statistics
CCS	Call Center Statistics
NONE	No Form Available
OTWS	OTW Statistics
REV	Market Gross Revenue
SHOS	Shares Outstanding
TUNS	Tunica Statistics

Note that not all new accounts need to be added to this TS – FAP – All Accounts Form – they just need to be added to at least one active form. The TS form can be used – if the new accounts are not already added to another active form.

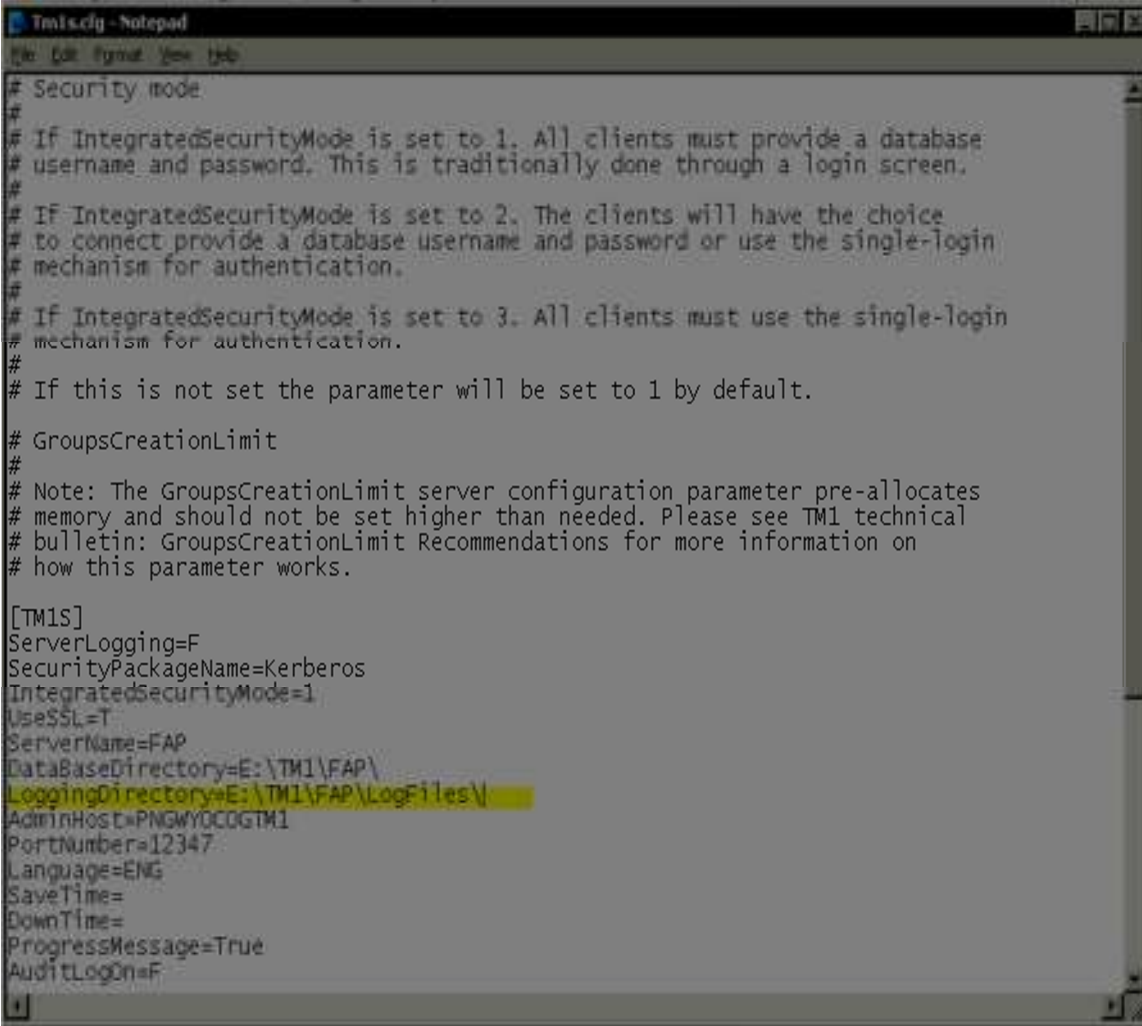
9 Monitor the TM1 Logs

The TM1 log files for FAP have been configured to be written to the E:\TM1\FAP\LogFiles directory on the TM1 server. This location is specified in the tm1s.cfg file in the E:\TM1\FAP directory. This can be changed – if desired. To change this location:

- Stop the FAP service on the TM1 server
- Modify the LoggingDirectory setting in the tm1s.cfg file
- Save File
- Restart FAP service on the TM1 server

Figure 16 shows the FAP Server

TM1 Admin Server (x64)	Service tha...	Started	Automatic	corp\cogn...
TM1 Server - ArgosyDev	Services re...	Started	Automatic	corp\cogn...
TM1 Server - FAP	Services re...	Started	Automatic	corp\cogn...
TM1 Server - Planning Sample	Services re...		Automatic	corp\cogn...
TM1 Server x64 / charlestown			Manual	Local System
TM1 Server x64 / tm1argosy...			Automatic	cognossvc...
TM1 Server x64 / tm1mgmt			Manual	corp\cogd...

Figure 16 shows the tm1 configuration

```
# Security mode
#
# If IntegratedSecurityMode is set to 1. All clients must provide a database
# username and password. This is traditionally done through a login screen.
#
# If IntegratedSecurityMode is set to 2. The clients will have the choice
# to connect provide a database username and password or use the single-login
# mechanism for authentication.
#
# If IntegratedSecurityMode is set to 3. All clients must use the single-login
# mechanism for authentication.
#
# If this is not set the parameter will be set to 1 by default.

# GroupsCreationLimit
#
# Note: The GroupsCreationLimit server configuration parameter pre-allocates
# memory and should not be set higher than needed. Please see TM1 technical
# bulletin: GroupsCreationLimit Recommendations for more information on
# how this parameter works.

[TM1S]
ServerLogging=F
SecurityPackageName=Kerberos
IntegratedSecurityMode=1
UseSSL=T
ServerName=FAP
DataBaseDirectory=E:\TM1\FAP\
LoggingDirectory=E:\TM1\FAP\LogFiles\
AdminHost=PNGWYDCOGTM1
PortNumber=12347
Language=ENG
SaveTime=
Downtime=
ProgressMessage=True
AuditLogOn=F
```

The TM1 log files can take up a substantial amount of disk space after the server has been running for some time. You should remove the old log files from your disk every so often, depending on the volume of the changes you make and the size of your disk. You can back up these files before you erase them. Many clients chose to implement an automated routine for the maintenance of TM1 log files.

Do not remove the log files when the TM1 server is running. First shut down the server, and then delete the log files from your disk.

Currently – there is a directory that has been established for old TM1 log files. It is E:\TM1\FAP - archive logs. Log files previous to June 2011 have been manually moved to this directory.

10 Restart/Services

There are 3 main components for FAP:

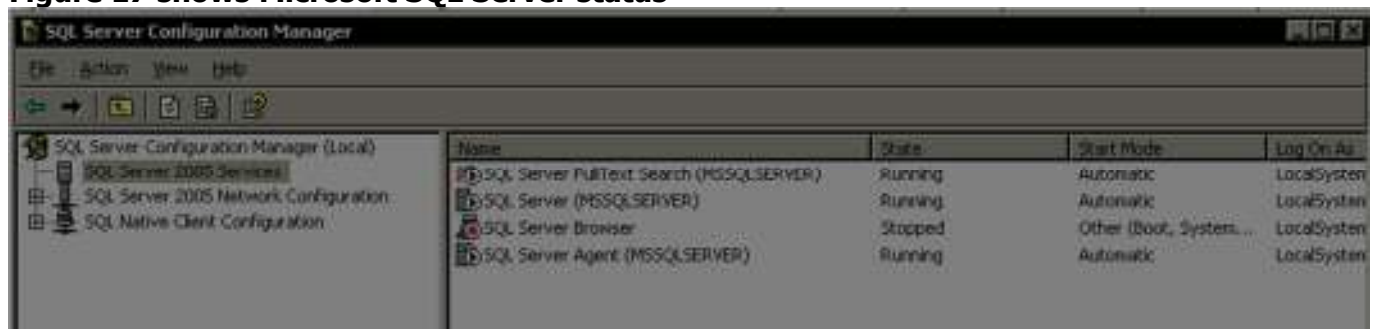
1. Microsoft SQL Server on the Controller (10.30.30.98) machine
2. FAP TM1 Server on the TM1 (10.30.30.99) machine
3. FAP Client Software on the Controller (10.30.30.98) machine

If any of these machines needs to be rebooted or taken offline for any reason – the order in which the FAP related services is important. If either TM1 server or database server is shutdown or rebooted – the FAP service on the Controller server (10.30.30.98) must be restarted. The order is important – the FAP Service on the Controller server must be started last.

Restart Servers/Services

The SQL Server box should be brought online first and ensure that the SQL Server is running

Figure 17 shows Microsoft SQL Server status



The TM1 Server should be brought online next - the TM1 Admin Server service should be started – followed up the individual TM1 servers – including the TM1 Server – FAP

Figure 18 shows the FAP service started

TM1 Admin Server (x64)	Service tha...	Started	Automatic	corp\cogn...
TM1 Server - ArgosyDev	Services re...	Started	Automatic	corp\cogn...
TM1 Server - FAP	Services re...	Started	Automatic	corp\cogn...
TM1 Server - Planning Sample	Services re...		Automatic	corp\cogn...
TM1 Server x64 / charlestown			Manual	Local System
TM1 Server x64 / tm1argosy...			Automatic	cognossvc...
TM1 Server x64 / tm1mgmt			Manual	corp\cogd...

The FAP service on the Controller box should be started last – after the SQL Server is running and the TM1 Admin and FAP servers are running:

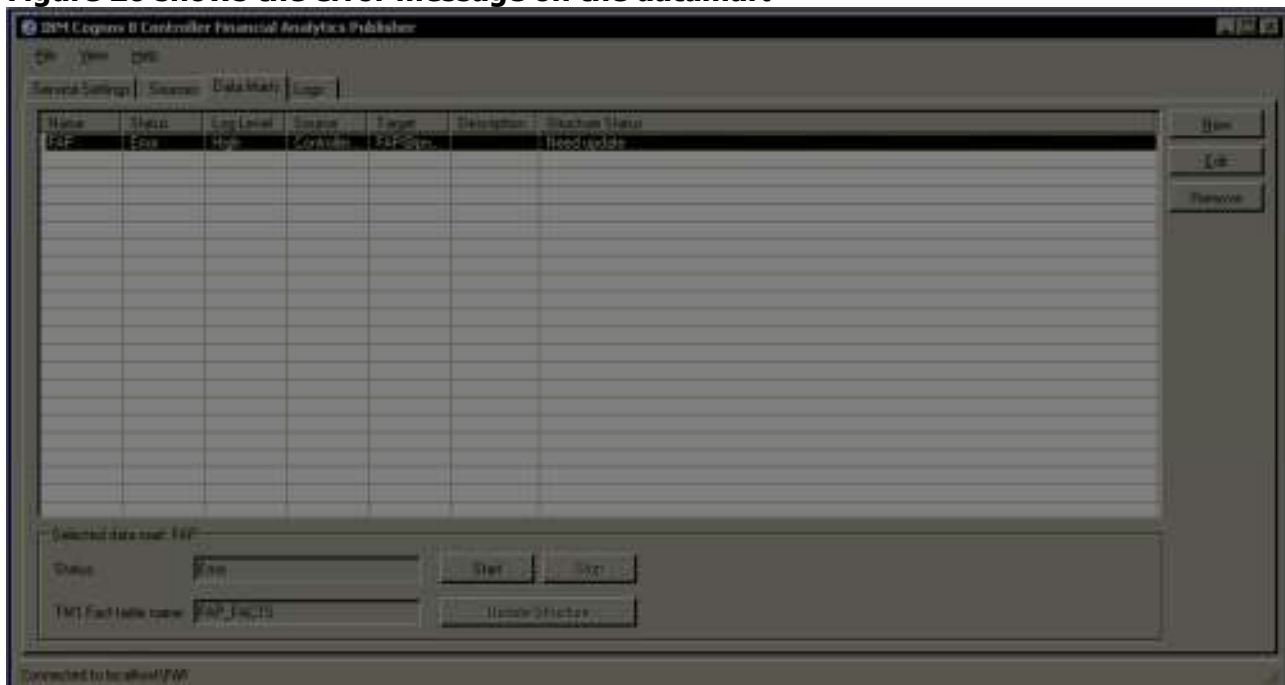
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Figure 19 shows the FAP service started

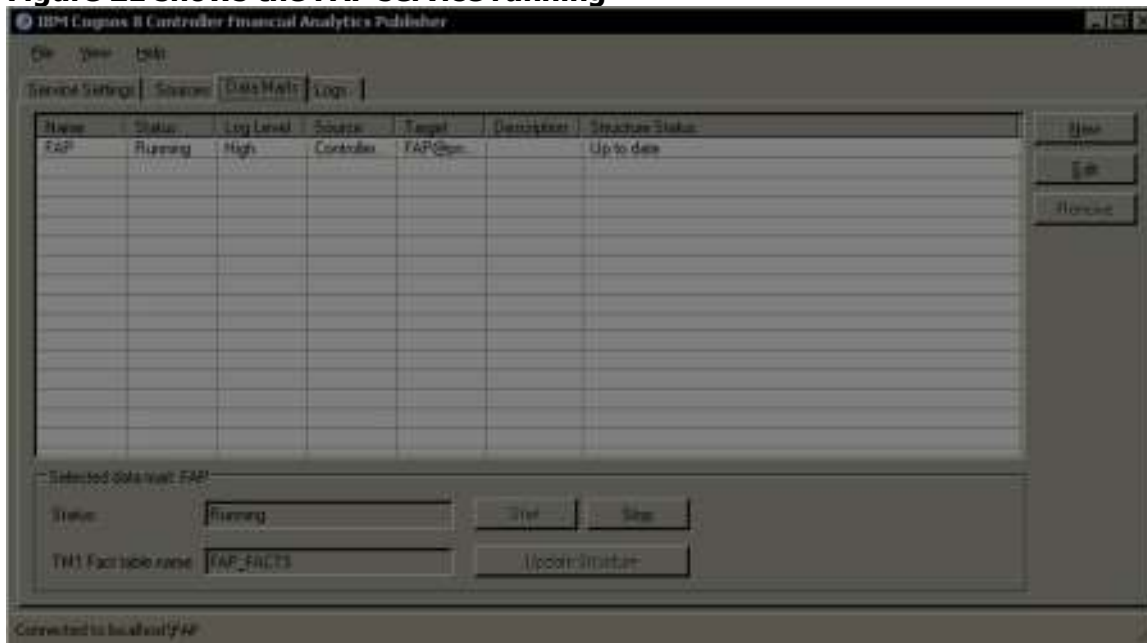
Name	Description	Status	Startup Type	Path
Human Interface Device Access	Enables ge...	Loaded		Local system
IBM Cognos B Controller Batch Server		Started	Automatic	Local System
IBM Cognos B Controller User Manager		Started	Automatic	corp\cogn...
IBM Cognos BS	Enables th...	Started	Automatic	corp\cogn...
IBM Cognos Controller Java Proxy			Manual	Local System
IBM Cognos FAP Service		Started	Automatic	corp\cogn...
IIS Admin Service	Enables th...	Started	Automatic	Local System
IMAPI CD-Burning COM Service	Manages C...	Disabled		Local System

This service should be stopped and restarted – to ensure that it was brought up after the database and TM1 servers

After restarting Server – Run an IP in FAP Client

Figure 20 shows the error message on the datamart

The Status message may differ – but the Start button should be active – press Start to begin the Initial Publish

Figure 21 shows the FAP service running

The Log can be used to monitor the activities and will indicate when the Initial Publish is complete

Figure 22 shows the FAP service in the Log

