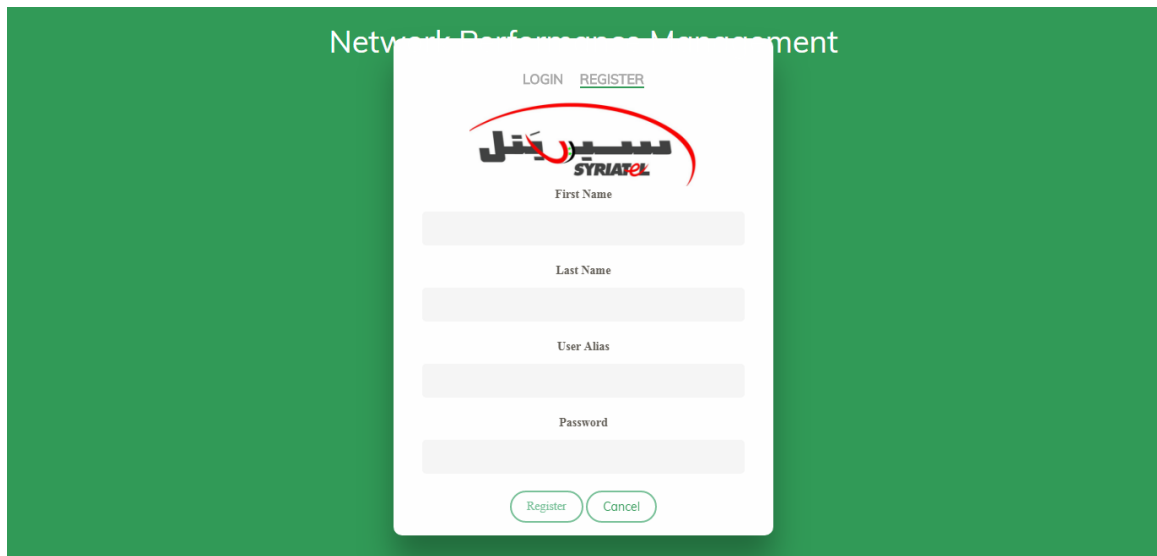
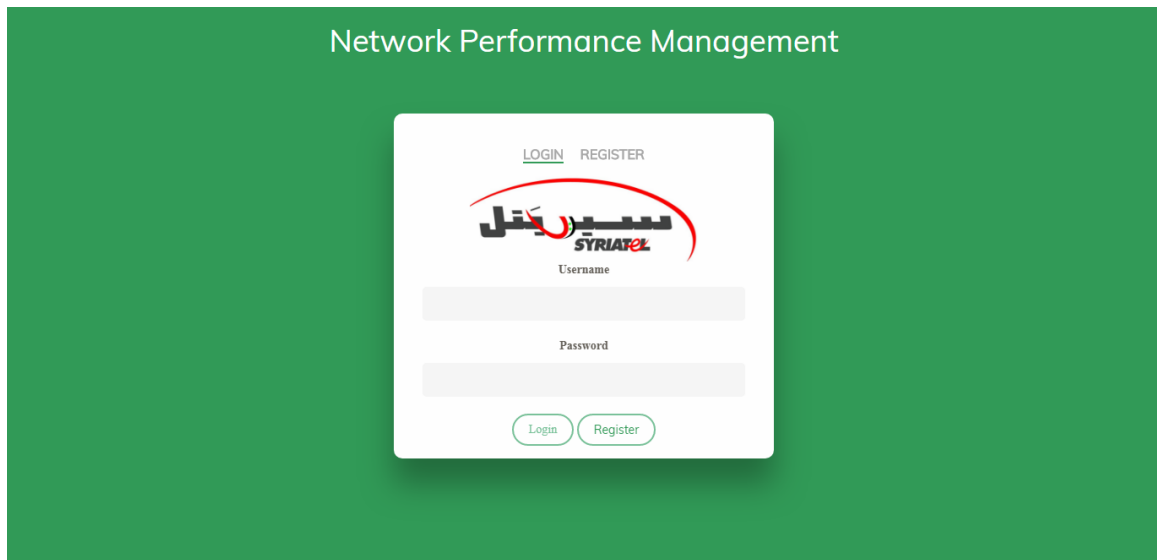




Network Performance Management User Guide

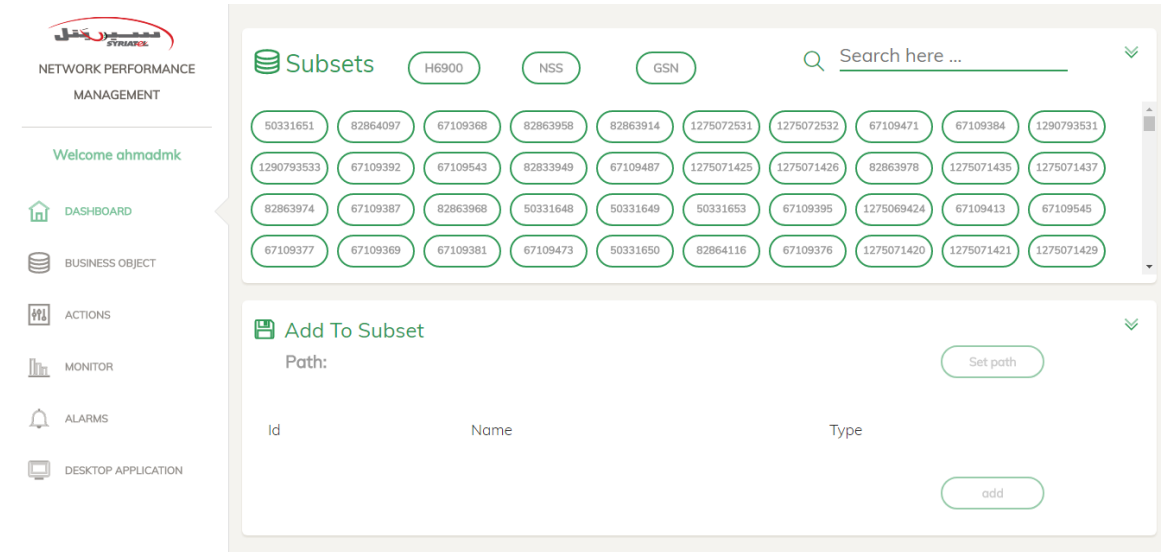
1. NPM Interfaces

1.1. User Login-Register Interface



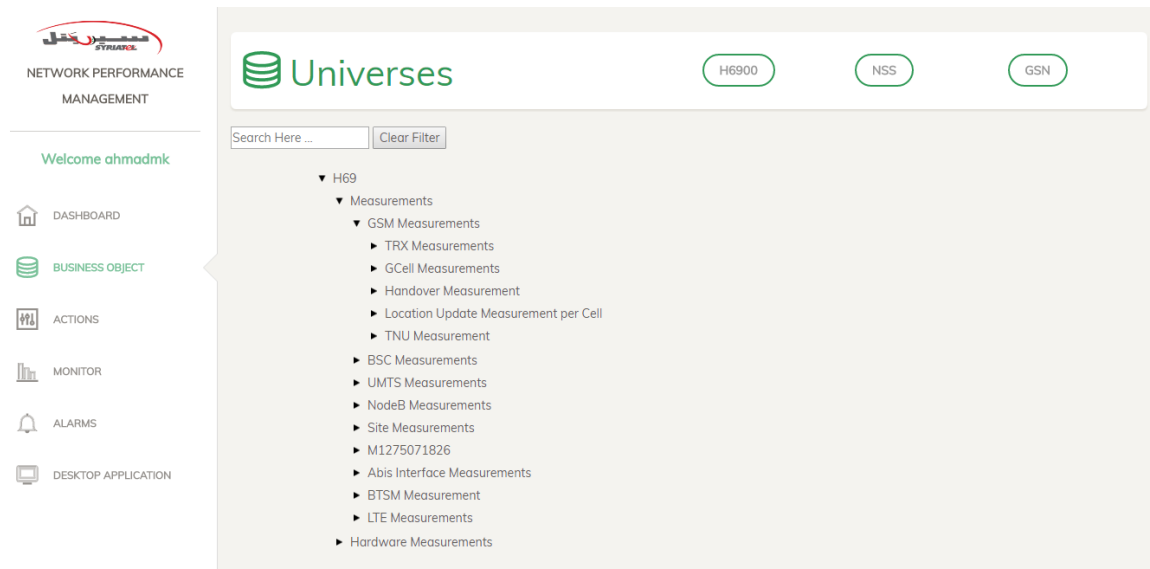
- Users can access to NPM main interface after login to Login-Register interface.
- Login process will be succeed by inserting *Syriatel userAlias* and *optional password*.
- User must Register to NPM system before login.
- User can communicate with **NPM Team** if password has been forgotten or unexpected error happened.

1.2. Dashboard Interface



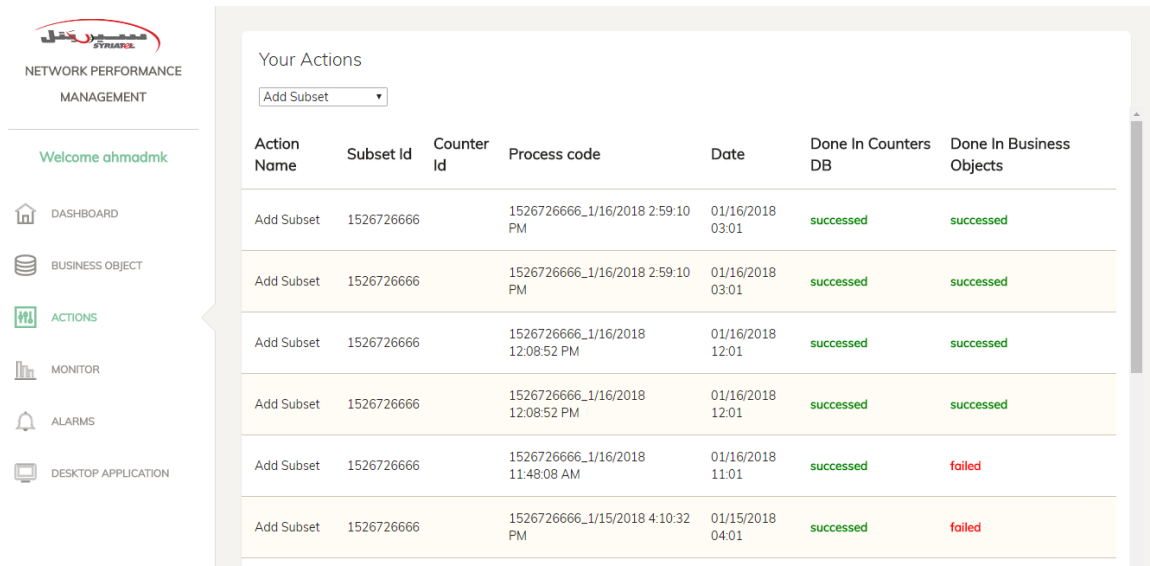
- The main interface which has all subsets and counters in NPM system.
- Dashboard interface allows user to add new subset , add counters or dimensions to exist subset.

1.3. Business Object Interface



- Business object interface allow user to display more information about existed subsets and its related counters and dimensions.
- Business object interface allow user to do Deactivate counter , Change counter path processes on **NPM System**.
- User can search for specific counter by typing its name on the shown search box.
- User can switch between universes the shown top bar (H6900 universe is the default one).

1.4. Actions Interface



The screenshot shows the 'Your Actions' interface in the NPM system. On the left is a sidebar with navigation links: DASHBOARD, BUSINESS OBJECT, ACTIONS (highlighted), MONITOR, ALARMS, and DESKTOP APPLICATION. The main area displays a table of actions with a filter dropdown set to 'Add Subset'.

Action Name	Subset Id	Counter Id	Process code	Date	Done In Counters DB	Done In Business Objects
Add Subset	1526726666		1526726666_1/16/2018 2:59:10 PM	01/16/2018 03:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 2:59:10 PM	01/16/2018 03:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 12:08:52 PM	01/16/2018 12:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 12:08:52 PM	01/16/2018 12:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 11:48:08 AM	01/16/2018 11:01	successed	failed
Add Subset	1526726666		1526726666_1/15/2018 4:10:32 PM	01/15/2018 04:01	successed	failed

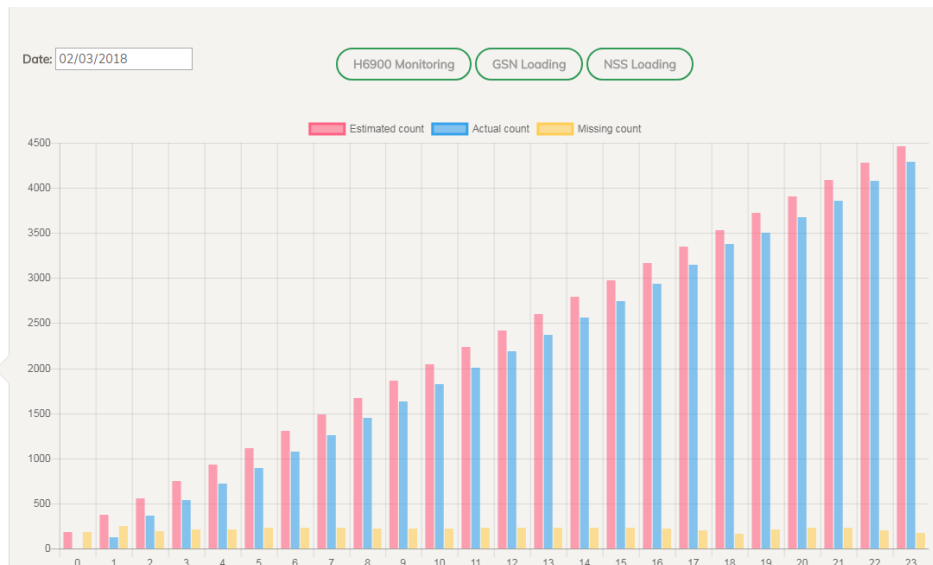
- Actions interface allows user to see all actions which has been done by him.
- User can filter on specific action from dropdown in the shown image above (filter on add subset action).
- Each row in actions table represent one action which was done by user before.
- Each row in actions table display process code which is important to use it to complete the action process in **NPM Desktop Application** side.
- **Done in Counters DB** column shows whether the action the changes has been updated in **Database** part successfully or not.
- **Done in Business Objects** column shows whether the changes has been updated in **Business Objects Application** or not.
- To update action's changes on **Business Objects Application**, user must insert action's process code in **NPM Desktop Application**.

1.5. Monitor Interface

NETWORK PERFORMANCE MANAGEMENT

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- DASHBOARD
- BUSINESS OBJECT
- ACTIONS
- MONITOR**
- ALARMS
- DESKTOP APPLICATION

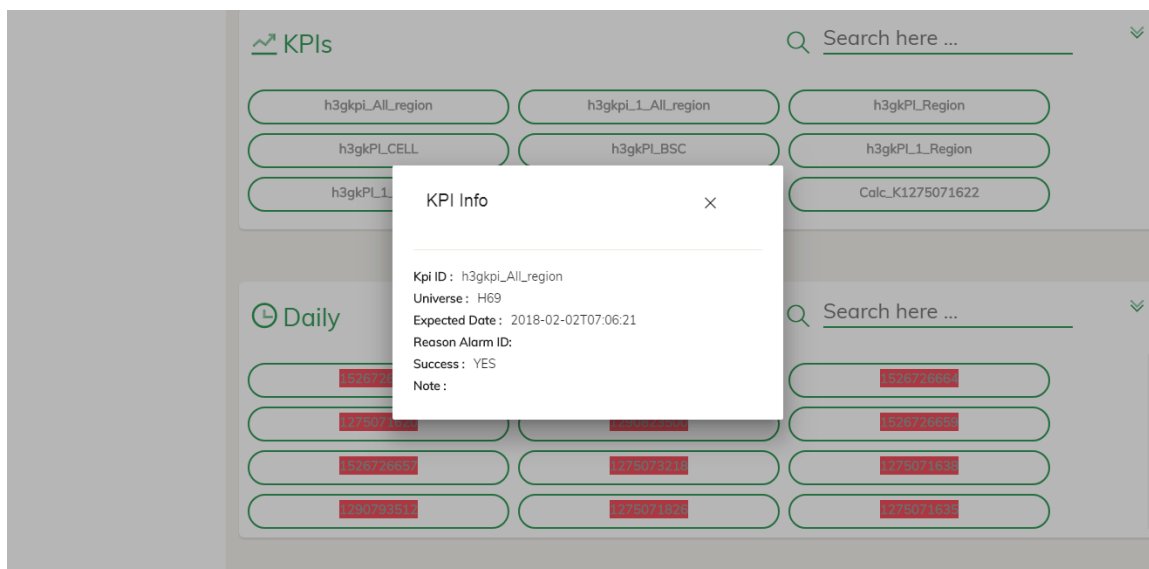
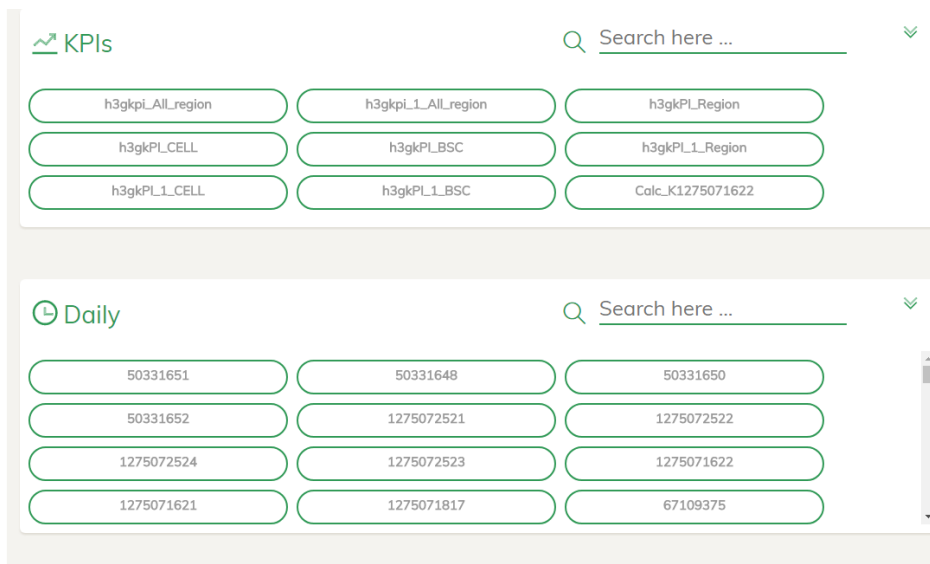


Peaks Search here ...

- peakcell_CS_insert
- Peak_TCP
- Peak_PS_Uplink_Traffic
- Peak_PS_Downlink_Traffic
- PEAKRNC_TRAFFIC_MEAS_INSERT
- PEAKCELL_SD_INSERT
- PEAKCELL_INSERT
- PEAKCELLUEINSERTER
- PEAKCELLTHROUGHPUTINSERTER
- PEAKBSCCELL_PEAKBSCBSC_INSERT1
- PEAKBSCCELL_PEAKBSCBSC_INSERT

KPIs Search here ...

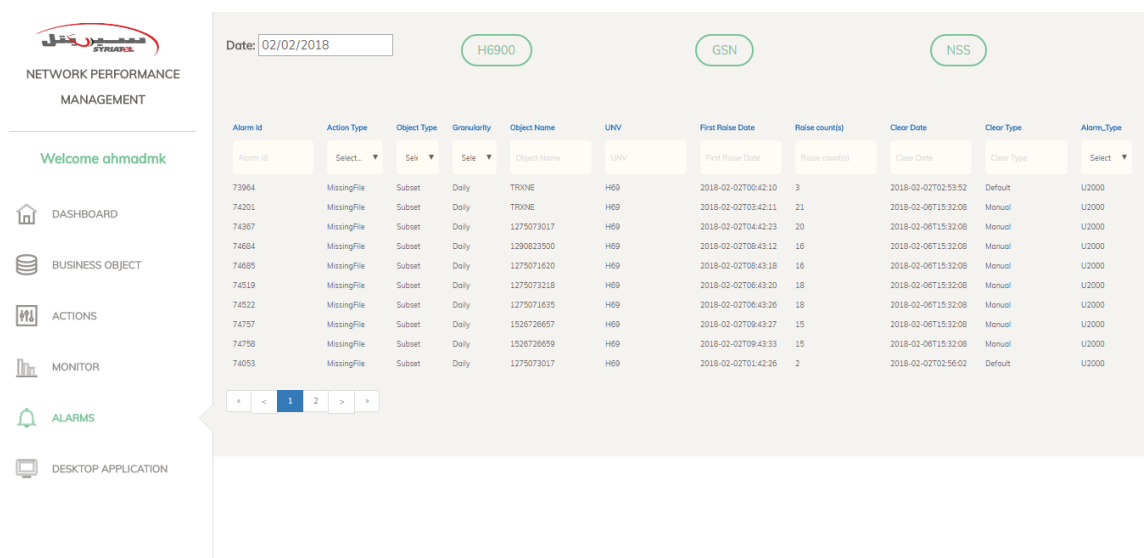
- h3gkpl_All_region
- h3gkpl_1_All_region
- h3gkPLRegion
- h3gkPL_CELL
- h3gkPL_BSC
- h3gkPL_1_Region
- h3gkPL_1_CELL
- h3gkPL_1_BSC
- Calc_K1275071622



- Interface to monitor loading process, peaks, KPIs and accumulations in **Counters DB**.
- By selecting the date, universes names will be appeared, you can click on any one to get its item.
- In H6900, loading chart, peak, KPI, and daily accumulations will be shown.

- In peak, KPI, and daily accumulations, subset with red background has an alarm which refers to some missing, you can click to any to view some details.
- In chart, you have to click on the colors above to determine which bars you want to display.

1.6. Alarms Interface

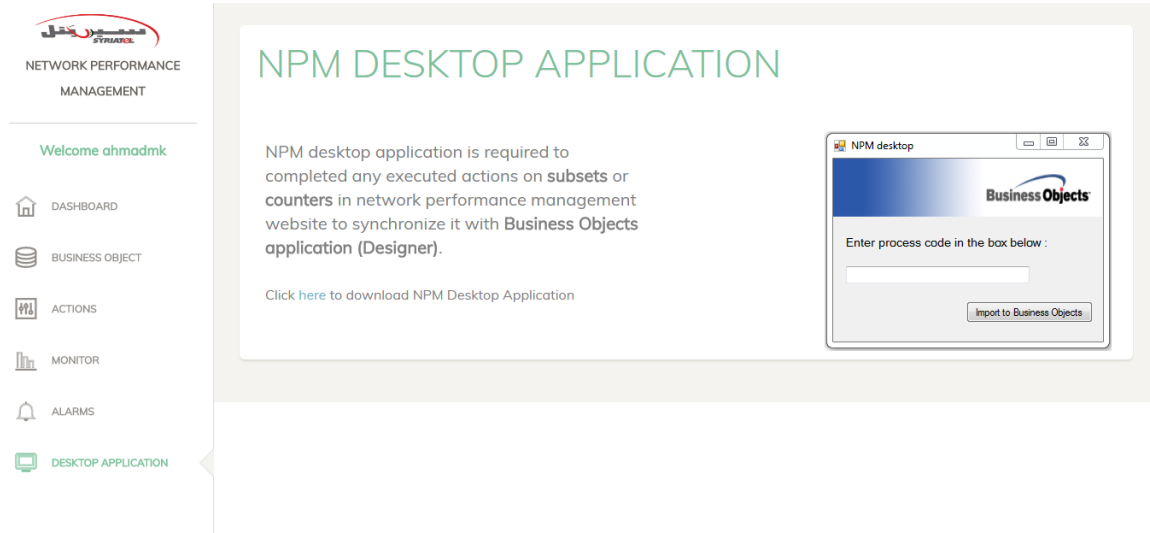


Network Performance Management (NPM) interface showing the Alarms section. The sidebar includes navigation options: DASHBOARD, BUSINESS OBJECT, ACTIONS, MONITOR, ALARMS (selected), and DESKTOP APPLICATION. The main area displays a table of alarms for the date 02/02/2018, filtered by H6900. The table columns include Alarm Id, Action Type, Object Type, Granularity, Object Name, UNV, First Raise Date, Raise count(s), Clear Date, Clear Type, and Alarm_Type. The table shows 10 rows of data, all with 'MissingFile' as the Action Type and 'H69' as the UNV. The 'Clear Type' column has a dropdown menu with options: Default, Manual, and U2000.

Alarm Id	Action Type	Object Type	Granularity	Object Name	UNV	First Raise Date	Raise count(s)	Clear Date	Clear Type	Alarm_Type
73964	MissingFile	Subset	Daily	TRXNE	H69	2018-02-02700:42:10	3	2018-02-02702:53:52	Default	U2000
74201	MissingFile	Subset	Daily	TRXNE	H69	2018-02-02703:42:11	21	2018-02-06715:32:08	Manual	U2000
74367	MissingFile	Subset	Daily	1275073017	H69	2018-02-02704:42:23	20	2018-02-06715:32:08	Manual	U2000
74684	MissingFile	Subset	Daily	1290823500	H69	2018-02-02708:43:12	16	2018-02-06715:32:08	Manual	U2000
74685	MissingFile	Subset	Daily	1275071620	H69	2018-02-02708:43:18	16	2018-02-06715:32:08	Manual	U2000
74519	MissingFile	Subset	Daily	1275073218	H69	2018-02-02706:43:20	18	2018-02-06715:32:08	Manual	U2000
74522	MissingFile	Subset	Daily	1275071635	H69	2018-02-02706:43:26	18	2018-02-06715:32:08	Manual	U2000
74757	MissingFile	Subset	Daily	1526726657	H69	2018-02-02709:43:27	15	2018-02-06715:32:08	Manual	U2000
74758	MissingFile	Subset	Daily	1526726659	H69	2018-02-02709:43:33	15	2018-02-06715:32:08	Manual	U2000
74053	MissingFile	Subset	Daily	1275073017	H69	2018-02-02701:42:26	2	2018-02-02702:56:02	Default	U2000

- Interface to view alarms related to missing issues with some details for each alarm.
- You can filter in the columns in two ways, list and type to search.
- For example: in Action Type you can filter by choosing **MissingFile** or **MissingData** from the list.
- In UNV you can filter by type the universe name in the top text box.

1.7. Desktop Application Interface

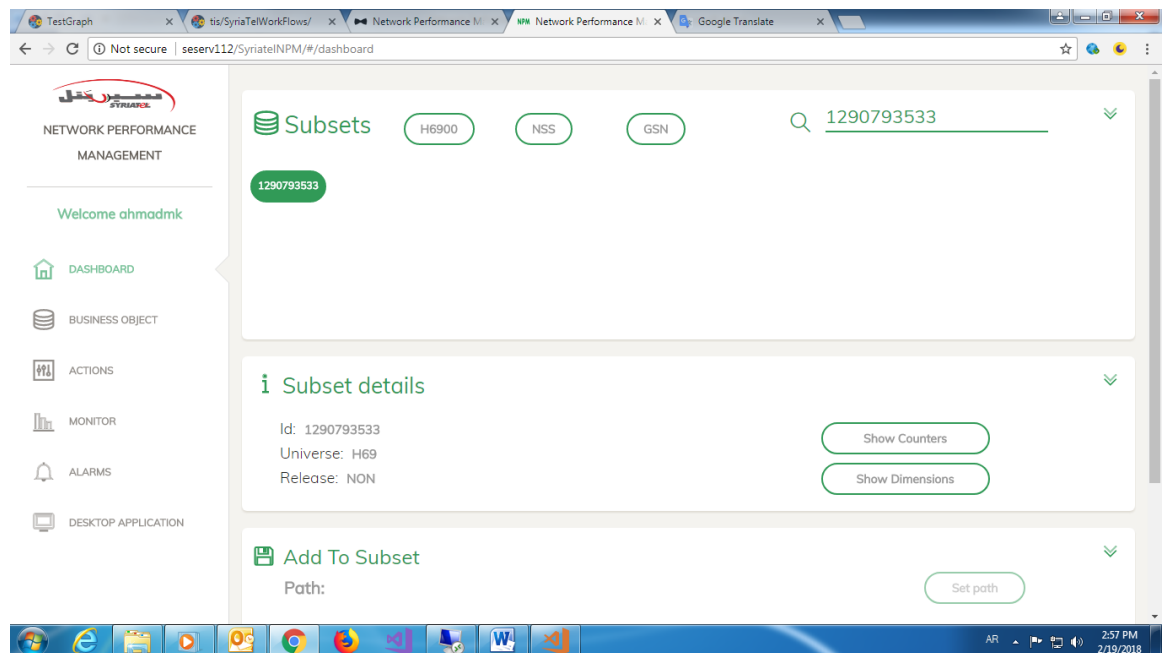


- Interface to download attached NPM desktop application.
- By clicking on [here](#) on the interface NPM desktop application will be downloaded in user PC.

2. NPM Actions

2.1. Add Subset Action

- Dashboard interface is responsible for adding new subsets or adding counters, dimensions to exist subset.
- First, User has to select universe which has the required subset from the top bar (H6900-NSS-GSN).
- Then, search for required subset on the search bar above.
- Then, click on required subset to show its information with **Show Counters** and **Show Dimensions** buttons.



- By clicking on **Show Counters** button related counters for required subset will be displayed.
- By clicking on **Show Dimensions** button related dimensions for required subset will be displayed.

DESKTOP APPLICATION

Counters

Search here ...

Counter Id	Counter Name	Select
1282411943	TCS410A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 0)	<input type="checkbox"/>
1282411944	TCS411A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 1)	<input type="checkbox"/>
1282411945	TCS412A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 2)	<input type="checkbox"/>

Dimentions

Dimention Name	Select
TRX_LOCGRP: LABEL	<input type="checkbox"/>
TRX_LOCGRP: CellIndex	<input type="checkbox"/>
TRX_LOCGRP: Cell	<input type="checkbox"/>

- User can choose any counter to add by clicking on the right checkbox.
- User can search for counter by type counter Id on the shown search bar.
- If counter doesn't have checkbox on the right that means this counter is already added.
- **After added required counters user must add all dimensions that related to selected subset.**

DESKTOP APPLICATION

Counters

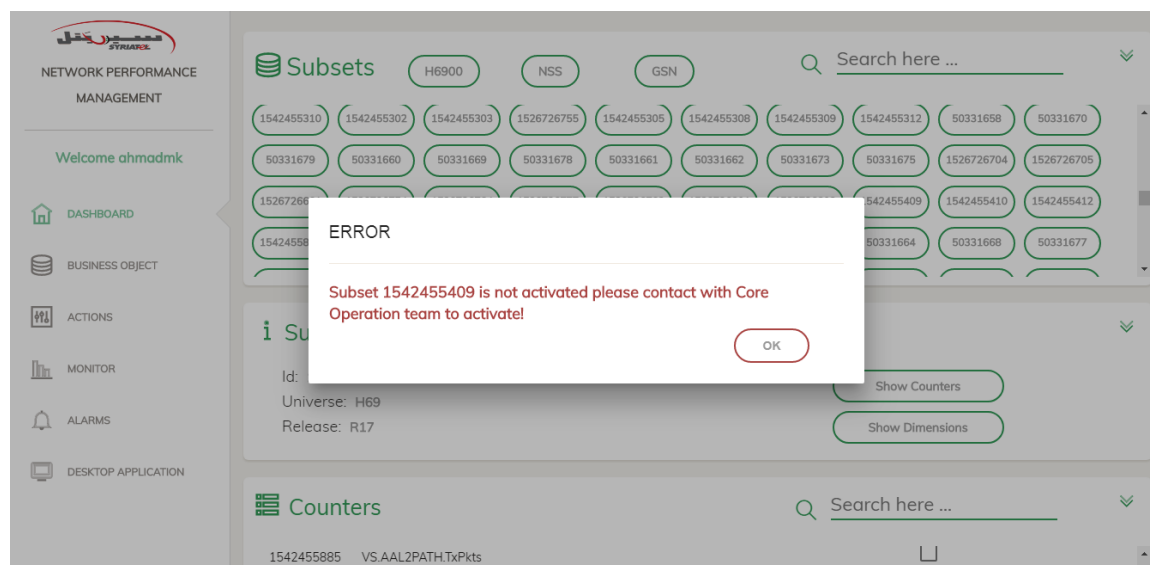
Search here ...

1282411944	TCS411A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 1)	<input checked="" type="checkbox"/>
1282411945	TCS412A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 2)	<input type="checkbox"/>
1282411946	TCS413A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 3)	<input checked="" type="checkbox"/>

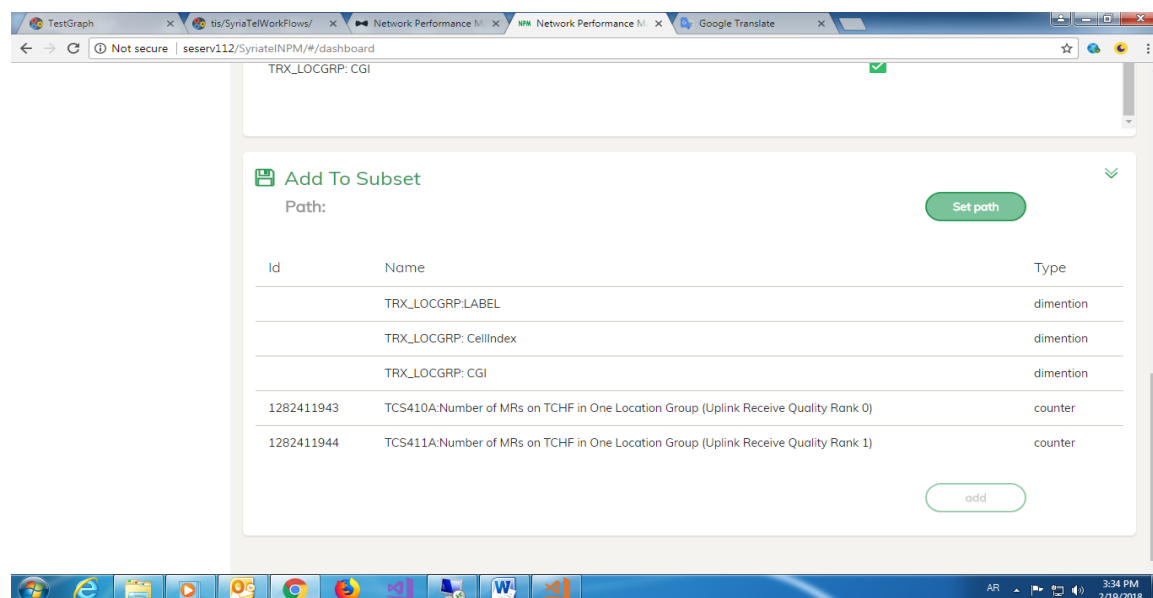
Dimentions

TRX_LOCGRP: LABEL	<input checked="" type="checkbox"/>
TRX_LOCGRP: CellIndex	<input checked="" type="checkbox"/>
TRX_LOCGRP: Cell	<input checked="" type="checkbox"/>

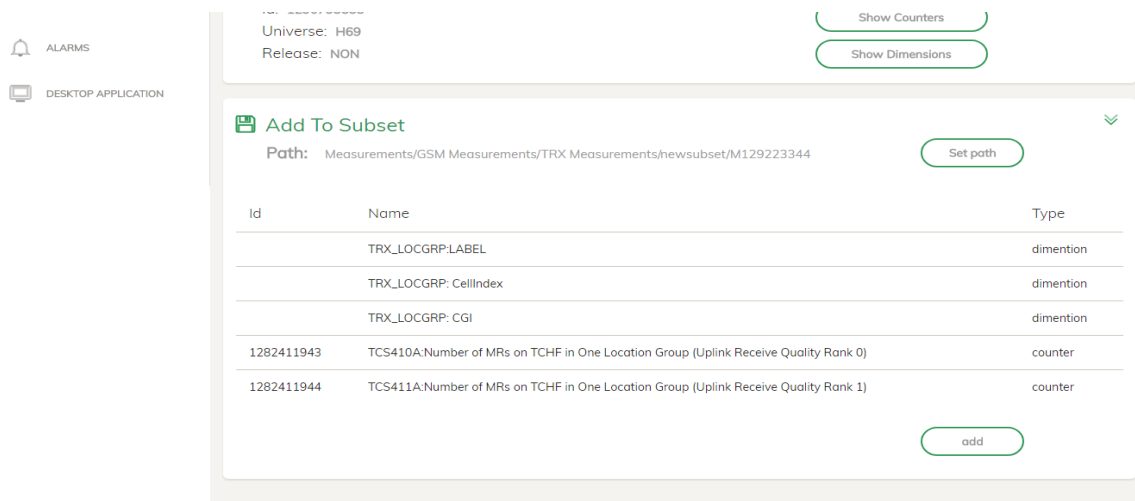
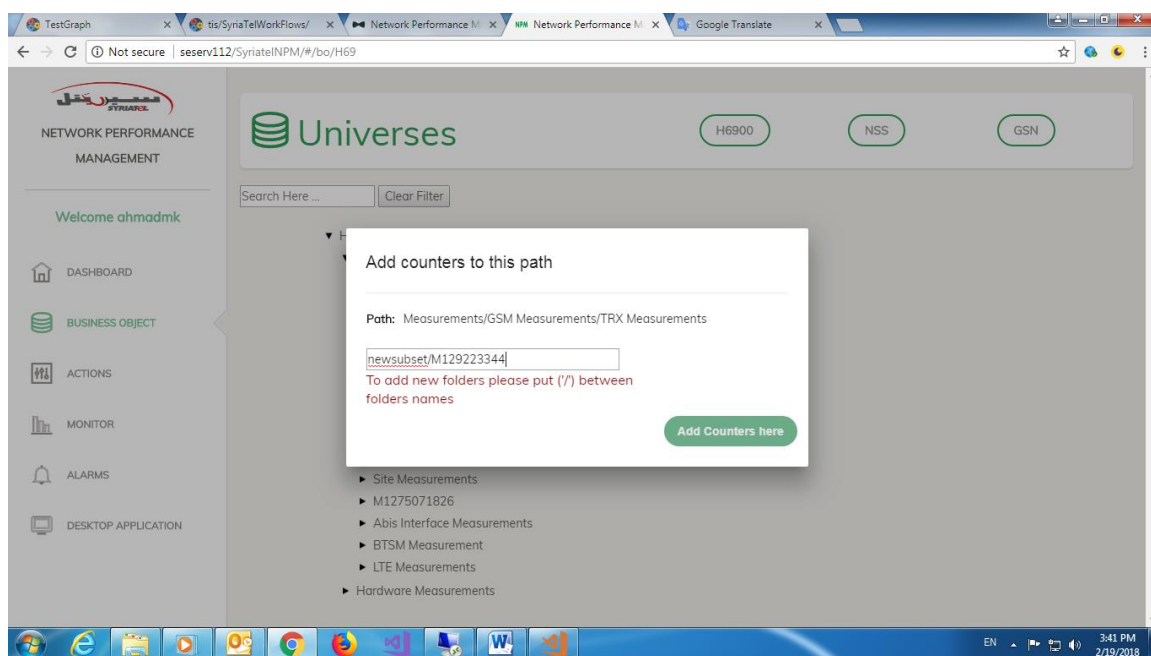
- When user clicks on **Show Dimensions** the below error might display.
- This error means that this subset isn't activated from **Core Operation** side.
- User should communicate with **Core Operation** team to activate the required subset then try again.



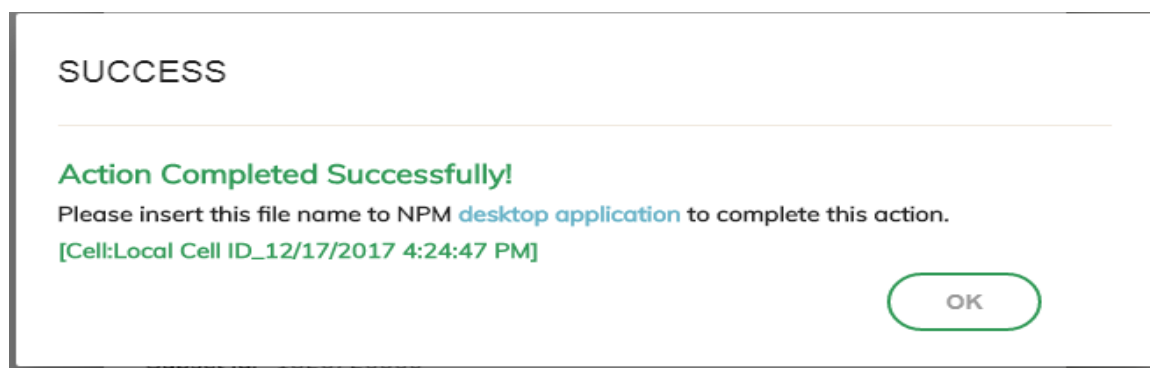
- After adding counters and dimensions, click on **Set Path** button to choose the path you want to add subset there.
- **Set Path** button will navigate to **Business Object Interface** to select path form there.




- Then, user select path from the shown tree by click on class wanted to add subset to.
- Then, message box will display having the full path trace.
- User can add more classes to this path by inserting them in the shown text box with (/) between them.
- Then, click on **Add Counters Here** button to navigate to Dashboard page again with the selected path
- User can select path from **Business Object Interface** at first then navigate to **Dashboard Interface** and add counters and dimensions there.



- Finally click on add button and wait until message displayed with the result.
- If the message saying that the process is succeeded then user should get process code from **Actions Interface** and complete the process in **NPM Desktop Application**.
- If the message saying that the process is failed then user should communicate with **NPM Team** to fix the problem.



- In Actions Interface you will see that the process is succeeded in **Counters DB** column but failed in **Business Object** column because the process isn't activated in **NPM Desktop Application** yet.



NETWORK PERFORMANCE
MANAGEMENT

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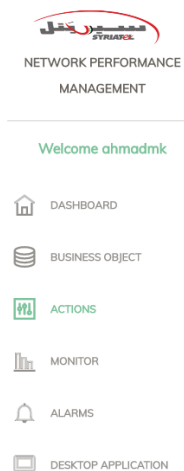
- DASHBOARD
- BUSINESS OBJECT
- ACTIONS**
- MONITOR
- ALARMS
- DESKTOP APPLICATION

Your Actions

Add Subset ▼

Action Name	Subset Id	Counter Id	Process code	Date	Done In Counters DB	Done In Business Objects
Add Subset	1526726666		1526726666_1/16/2018 11:48:08 AM	01/16/2018 11:01	successed	failed
Add Subset	1526726666		1526726666_1/15/2018 4:10:32 PM	01/15/2018 04:01	successed	failed
Add Subset	100665800		100665800_1/11/2018 12:49:20 PM	01/11/2018 12:01	failed	failed
Add Subset	100665800		100665800_1/11/2018 12:41:22 PM	01/11/2018 12:01	failed	failed
Add Subset	100665800		100665800_1/11/2018 12:37:55 PM	01/11/2018 12:01	failed	failed
Add Subset			100665800_1/11/2018 12:24:05 PM	01/11/2018 12:01	failed	failed

- To complete the process in **NPM Desktop Application** user has to install NPM Desktop Application.
- User can download **NPM Desktop Application** form **Desktop Application Interface**.
- Then, copy the process code and past it in the text box in **NPM Desktop Application** and click on Import to **Business Objects Interface**.
- Then some pop-up messages will be shown by desktop application so you have to confirm all of them.
- Then, a pop-up message will be shown to confirm save and export universe so you have to click **“OK”** button to complete adding action
- The previous step is very important to save data that has been added otherwise the process will be failed.
- Finally, pop-up message will be shown to inform that adding subset action is completed successfully and you can refresh the **Actions Interface** to see that the process is succeeded in both **Counter DB** and **Business Objects** sides.

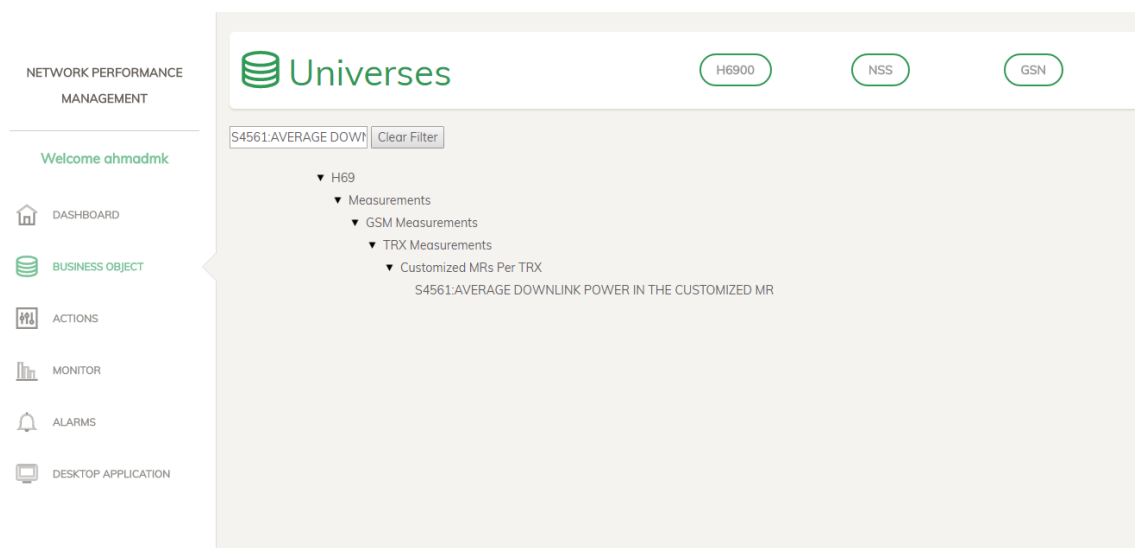


Your Actions						
Add Subset						
Action Name	Subset Id	Counter Id	Process code	Date	Done In Counters DB	Done In Business Objects
Add Subset	1526726666		1526726666_1/16/2018 2:59:10 PM	01/16/2018 03:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 2:59:10 PM	01/16/2018 03:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 12:08:52 PM	01/16/2018 12:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 12:08:52 PM	01/16/2018 12:01	successed	successed
Add Subset	1526726666		1526726666_1/16/2018 11:48:08 AM	01/16/2018 11:01	successed	failed
Add Subset	1526726666		1526726666_1/15/2018 4:10:32 PM	01/15/2018 04:01	successed	failed

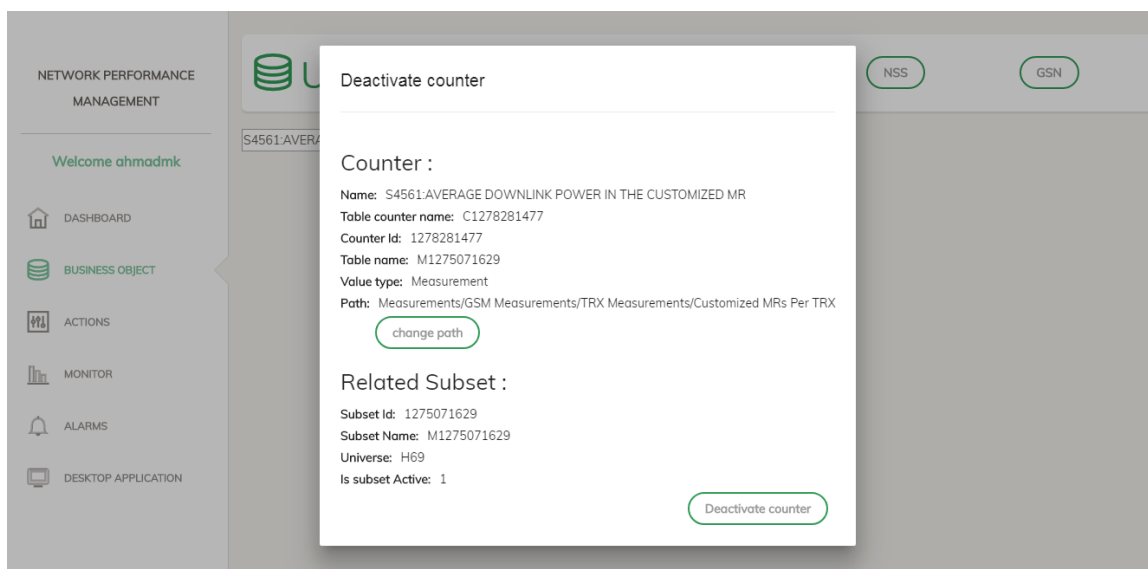
- You can communicate with NPM Team if **Adding Subset Action** is failed.
- More information about how to install **NPM Desktop Application** and required tools are in **“Desktop Application”** section in user guide.

2.2. Deactivate Counter Action

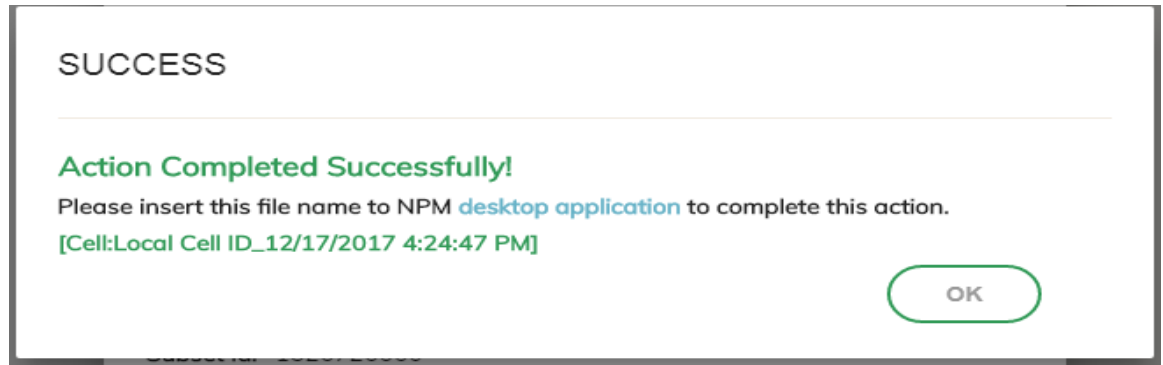
- **Business Object Interface** is responsible for executing **Deactivate Counter Action**.
- First, User has to put counter wanted to deactivate in search box in business objects interface for example (S4561:AVERAGE DOWNLINK POWER IN THE CUSTOMIZED MR).



- Then, click on the counter user wants to deactivate
- Message will be shown with **Deactivate Counter** button in the bottom of the message.



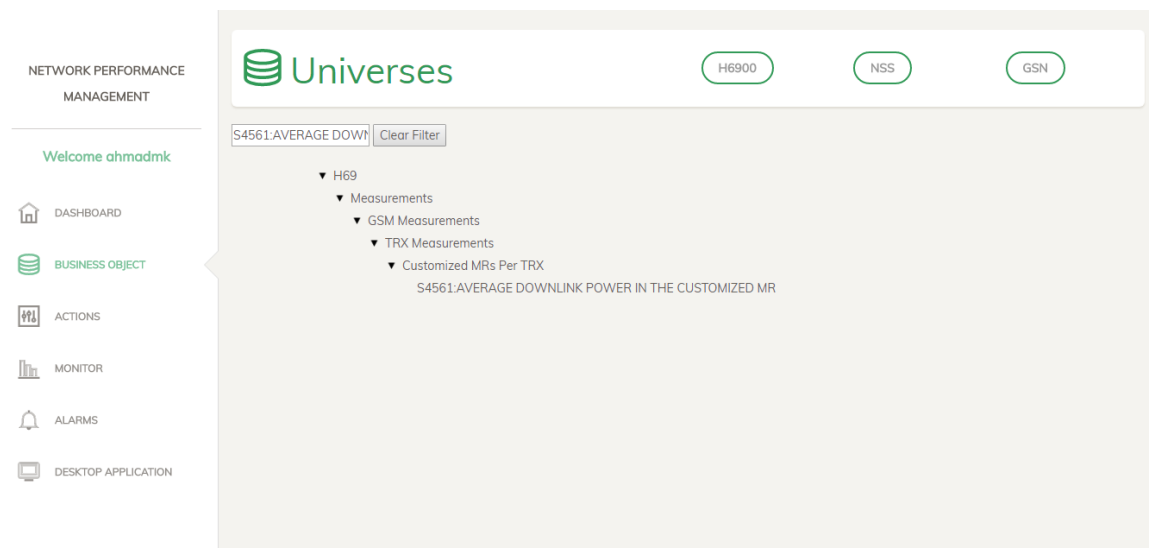
- Finally click on **Deactivate Counter** button and wait until message displayed with the result.



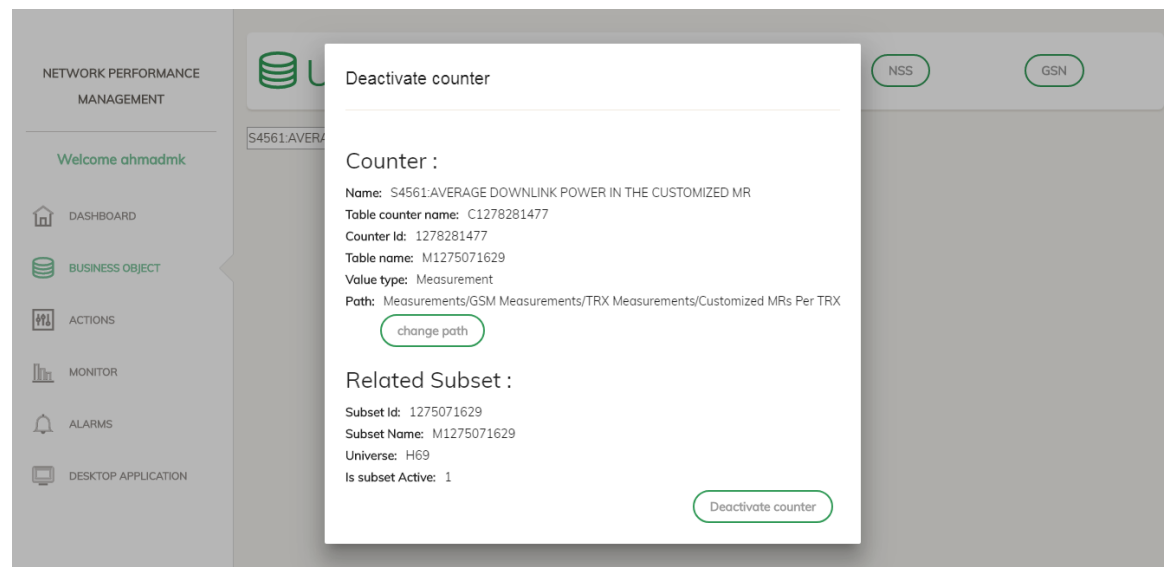
- If the message saying that the process is succeeded then user should get process code from **Actions Interface** and complete the process in **NPM Desktop Application**.
- If the message saying that the process is failed then user should communicate with **NPM Team** to fix the problem.
- To deactivate counter in **NPM Desktop Application** please copy the process code from **Actions Interface** and complete the same steps which shown in **Add Subset Action**.

2.3. Change Counter Path Action

- **Business Object Interface** is responsible for executing **Change Counter Path Action**.
- First, User has to put counter wanted to change path in search box in business objects interface for example (S4561:AVERAGE DOWNLINK POWER IN THE CUSTOMIZED MR).

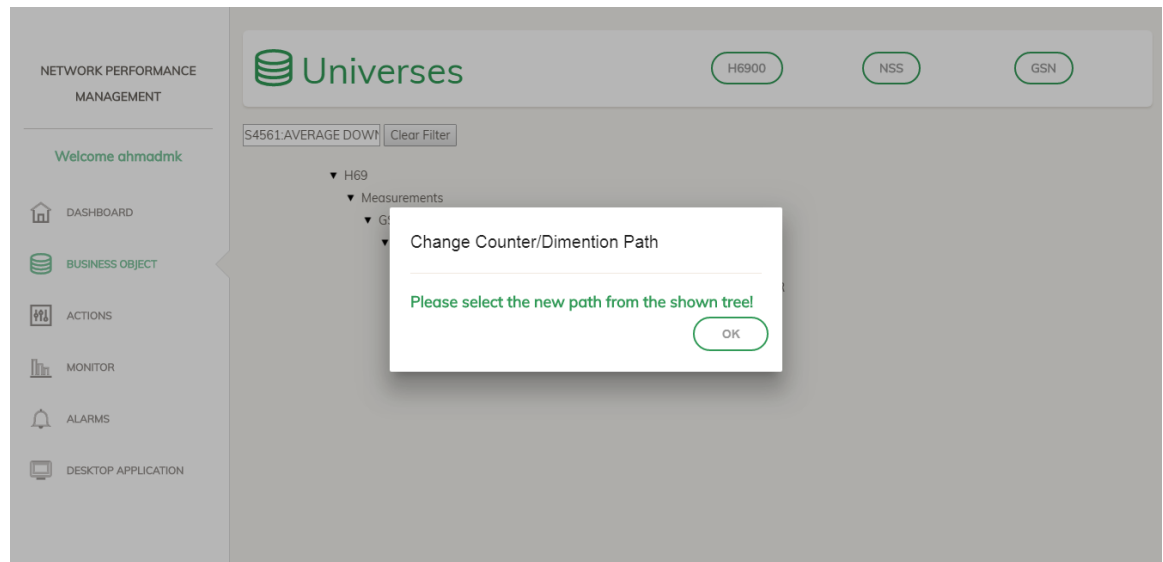


- Then, click on the counter user wants to change path
- Message will be shown with **Change Path** button below the original counter path.

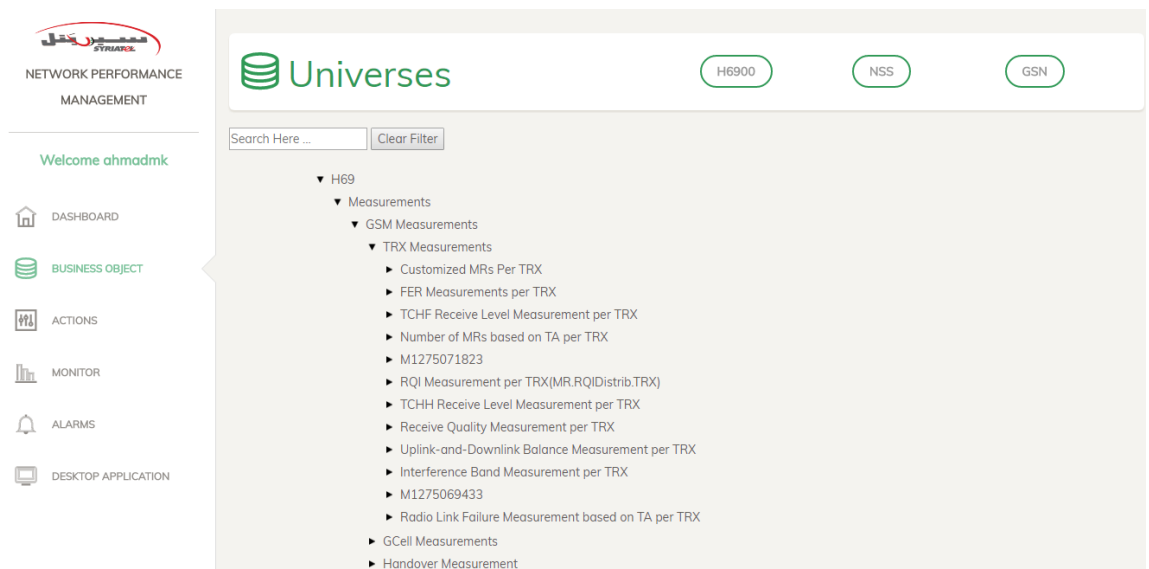


- Then, click on **Change Path** button to change the selected counter path.

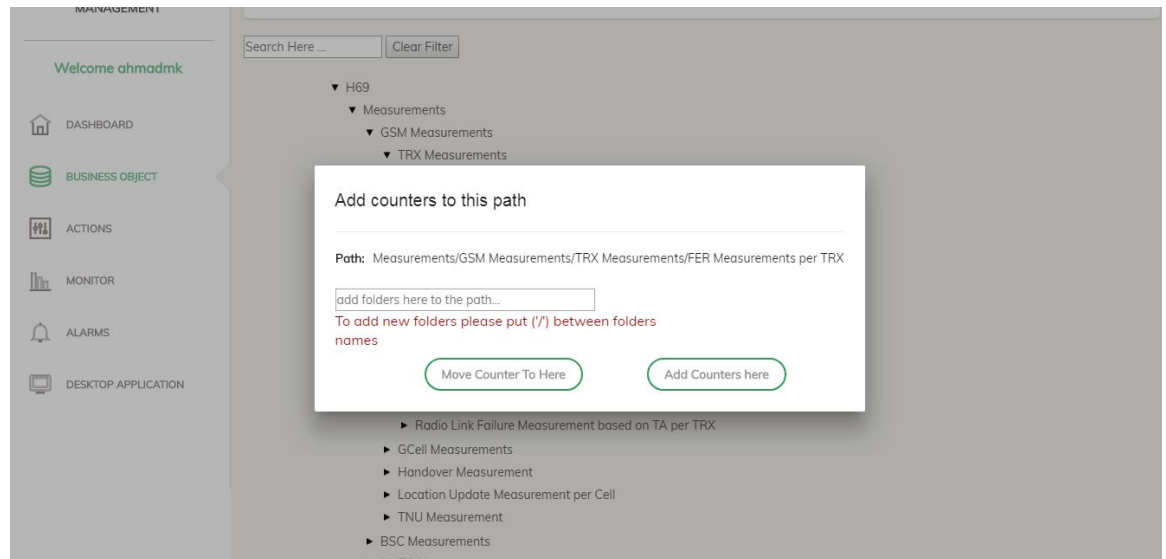
- Then, The below Message box will be displayed, Click **Ok**.



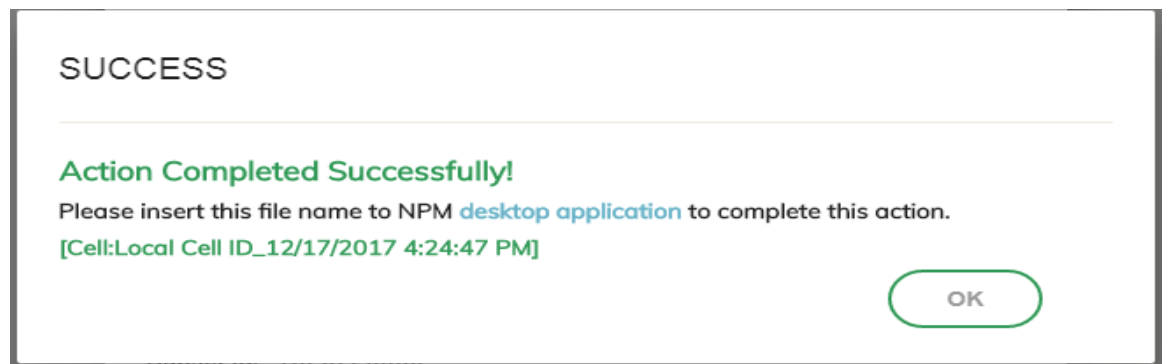
- Then, traverse inside the tree to select the new path you want to add the selected counter there.



- Then, click on the class(folder) which user wants to add counter to it for example (FER Measurements per TRX).
- New message box will be displayed with two buttons on it.



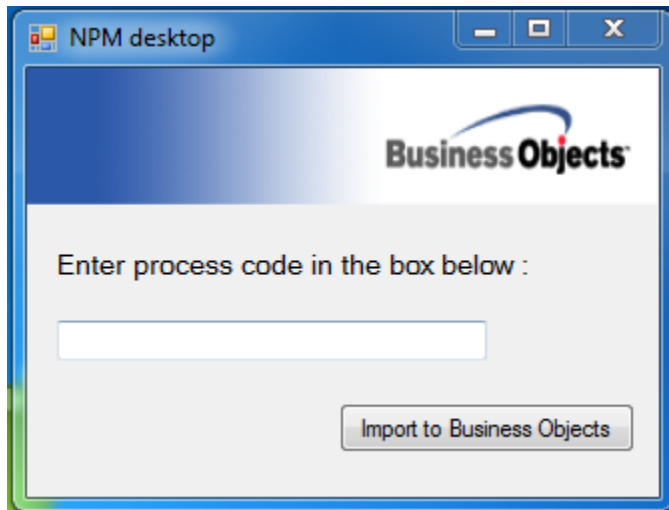
- User can add more classes to this path by inserting them in the shown text box with (/) between them.
- Finally, click on **Move Counter To Here** button to transfer the counter to the selected path “which also is written on the Message box above” and wait until message displayed with the result.



- If the message saying that the process is succeeded then user should get process code from **Actions Interface** and complete the process in **NPM Desktop Application**.
- If the message saying that the process is failed then user should communicate with **NPM Team** to fix the problem.
- To change counter path in **NPM Desktop Application** please copy the process code from **Actions Interface** and complete the same steps which shown in **Add Subset Action**.

3. NPM Desktop Application

3.1. How to install NPM



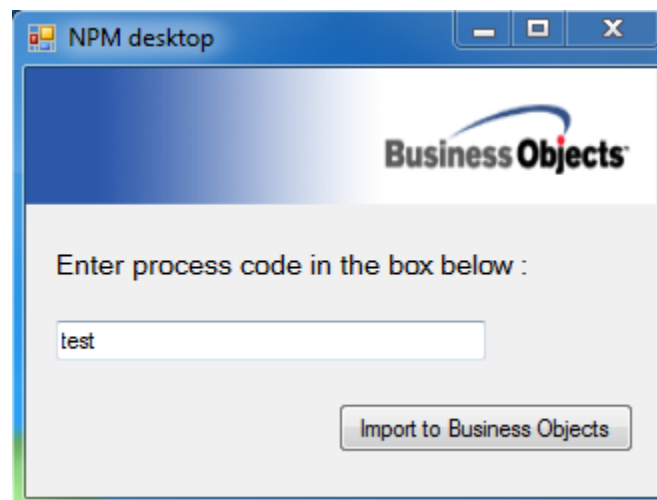
- NPM desktop application is required to completed any executed actions on subsets or counters in network performance management website to synchronize it with Business Objects application (Designer).
- You can download **NPM Desktop Application** from **Desktop Application Interface**.
- Unzip the downloaded file on your PC.
- Then click on setup.exe to install it.
- Finally, the application will be installed on your PC.
- Installing NPM desktop application doesn't need local admin privilege but it will be needed to run it at the first time.

3.2. NPM System Installation Requirements

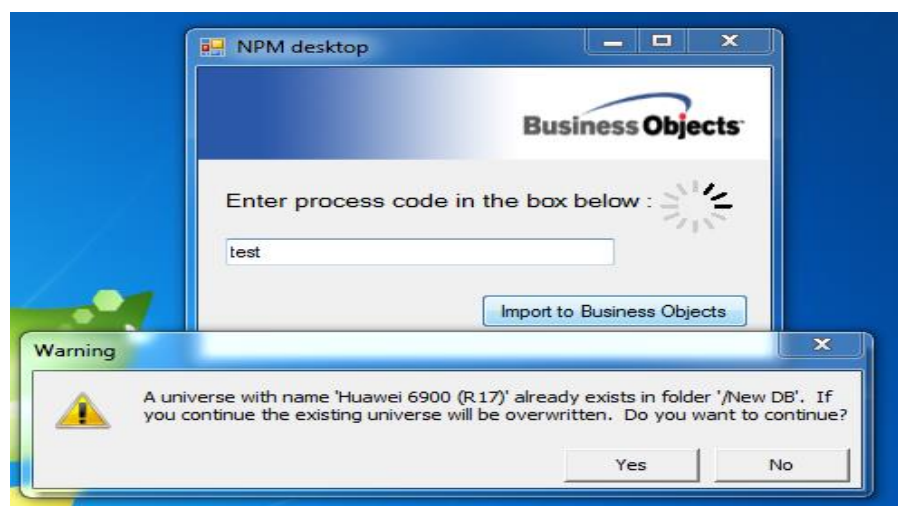
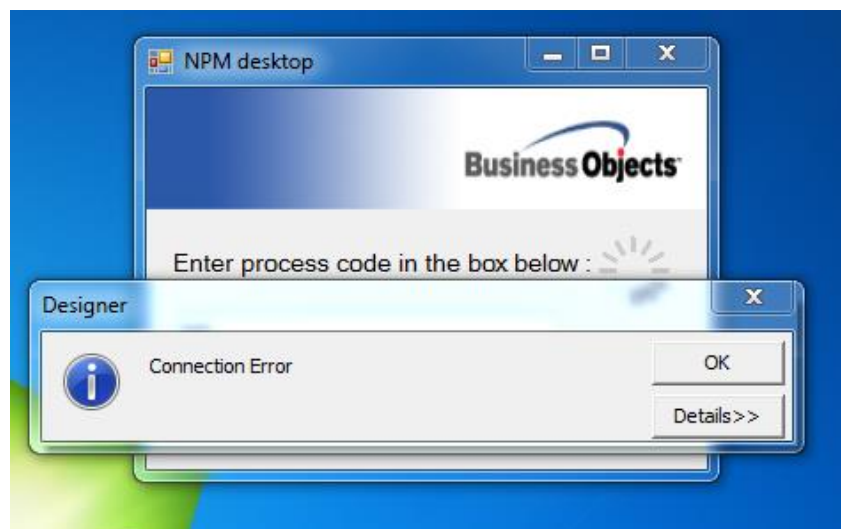
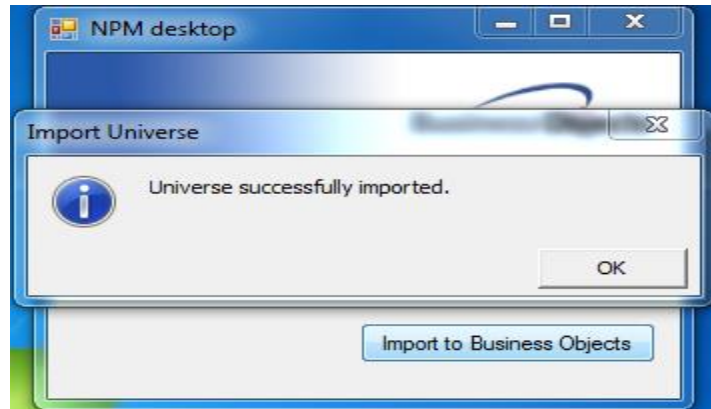
- BusinessObjects Enterprise XI 3.1.
- .Net Framework 4.5.
- 8 GB RAM (recommended), 4 GB RAM at least.
- NPM Desktop Application.
- Google Chrome or Mozilla Firefox Browsers
- Full access privilege to “Business Objects” folder in “C:\Program Files (x86)” path.
- Ran NPM Desktop Application as a test with admin privilege at the first time (Read the steps in **Testing NPM Desktop Application** section).
- Helpdesk representative have to be familiar with the requirements above.

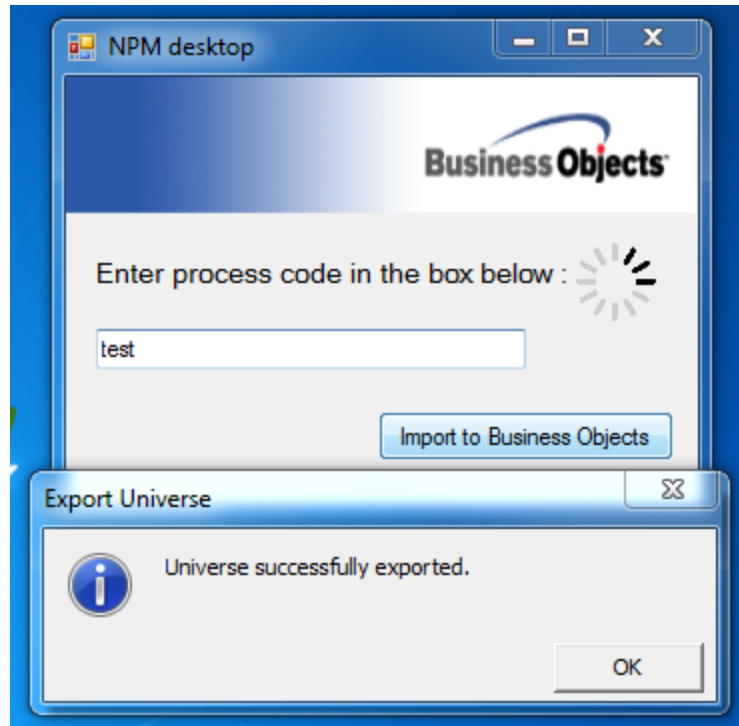
3.3. Testing NPM Desktop Application

- Open NPM Desktop Application and write “test” on its box as the below picture.



- Then the below messages will be displayed consecutively, so click “Ok” or “Yes” for all of them.





- Finally, message will be shown telling the user that the testing **NPM Desktop Application** is done successfully.

