

Exercise: SAP API Management

Unit 9 – Analytics

SCENARIO

In this scenario we will talk about Analytics feature.

- What is Analytics?
- Features of Analytics.

Prerequisites

You should have a running API Portal landscape for your user.

ANALYTICS

An Introduction

Analytics in API Portal provides analytical feature for its user to know how its artifacts are behaving on actual usage.

- KPIs and Charts are used to display these analytical behaviors.
- These charts & KPIs are built on artifacts like API Providers, API Proxy, API Product, Application and Developer.
- These analytical data are shown for a given time frame.
 - Year, month, week, today and hour are constant time frames.
 - § If chosen time frame is month; then it refers to the time range of last 30 days from today. Similarly, if time frame is week, then it shows data for last 7 days from today.
 - Custom time frame (range) is also supported.
 - § In custom time range, user can manually select the start date and end date to get data for desired time frame.
- There are three views of Analytics:
 - Performance View
 - Error View
 - Custom View
- Few of the pre-shipped KPIs are:
 - API Response Time
 - Target Response Time
 - Total API Hits
 - Request Processing Latency
 - Target System Errors
 - Total API Errors

Navigating to Analytics Page



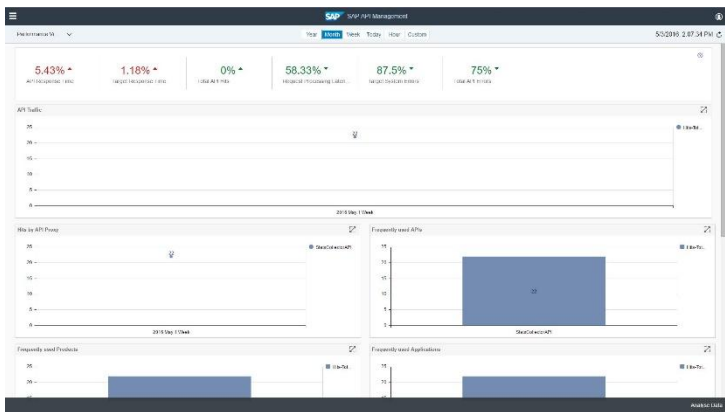
© 2016 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

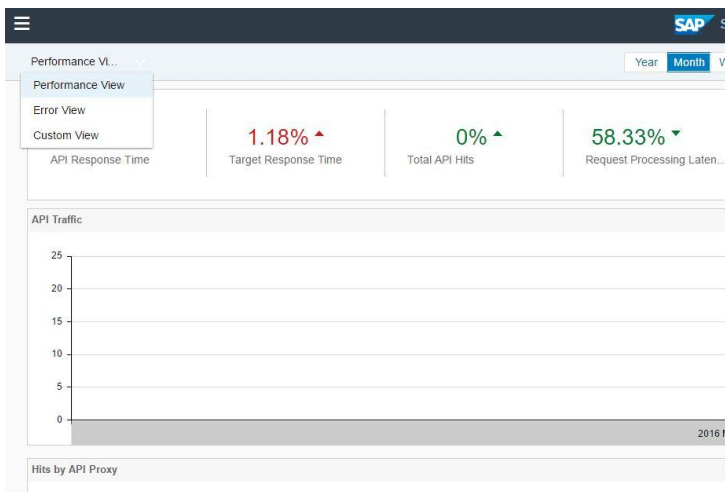
SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark> for additional trademark information and notices. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary. These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

Explanation	Screenshot
<ol style="list-style-type: none"> 1. Logon to API Portal on Trial Landscape. 2. Click on Menu button on left pane. 3. Click on Analyze Button from the Menu Items. [Note – By default, performance view will be loaded] 	

Changing the View

Explanation	Screenshot
<ol style="list-style-type: none"> 4. In the Analytics Dashboard, on the left hand side, click on the drop down button. 5. Choose the required view. 	

Performance View

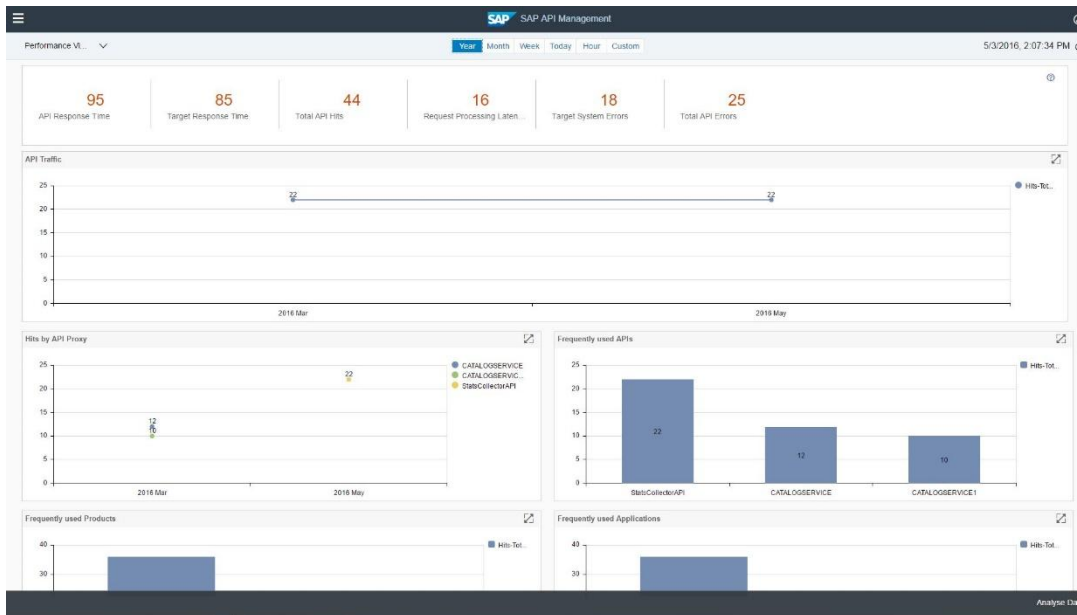
In this view, performance related pre-shipped Charts are shown. These charts are built on artifacts like API Providers, API Proxy, API Product, Application and Developer.

Few of the pre-shipped performance charts are:

- API Traffic
- Frequently used APIs
- Frequently used Products
- Frequently used Applications
- Slowest APIs
- Frequently used Provider Systems
- Active Developers

The performance view is the pre-shipped view and hence cannot be edited.

Here is the snapshot of the Performance View.



Error View

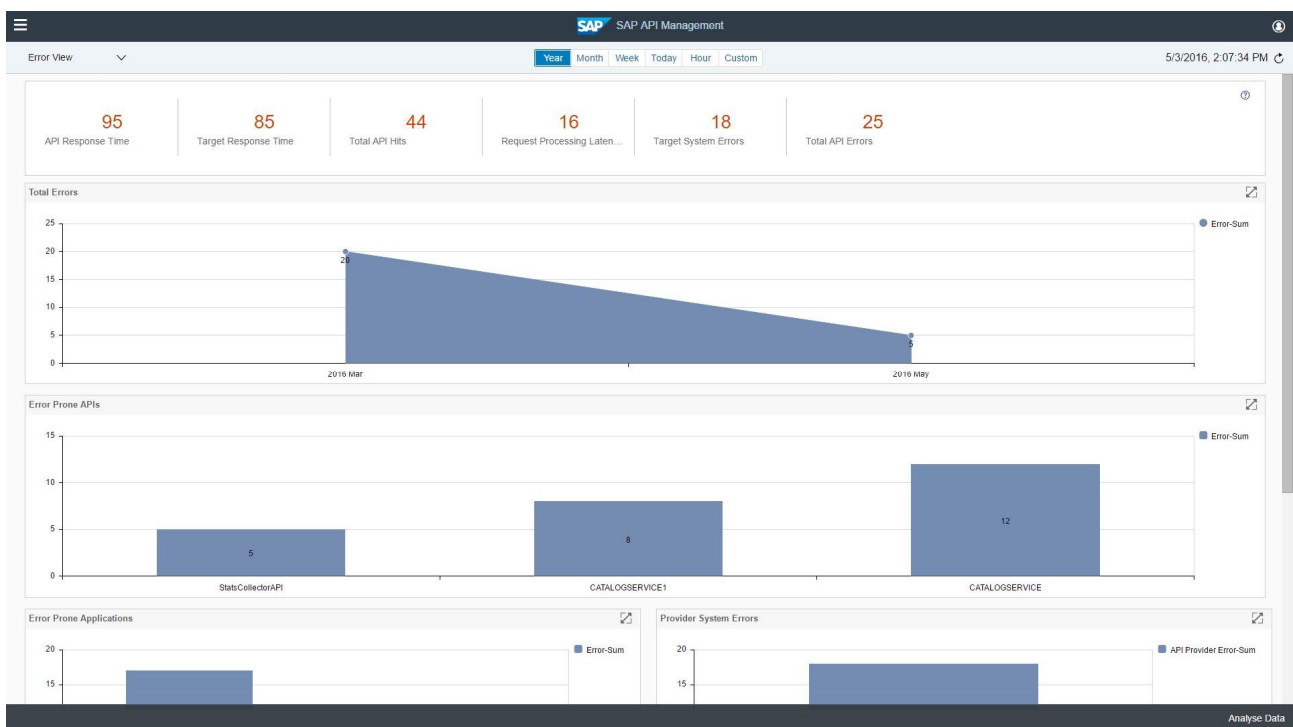
In this view, error related pre-shipped Charts are shown.

Few of the pre-shipped performance charts are:

- Total Errors
- Error Prone APIs
- Error Prone Applications
- Provider System Errors
- Errors by Request Verb

The error view is the pre-shipped view and hence can't be edited.

Here is the snapshot of the Error View.



Custom View

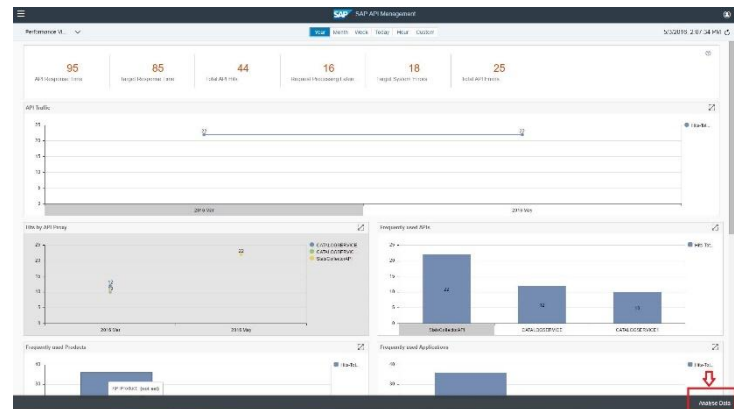
In the custom view, the charts which are created by the user will be shown. User's created chart can also be unpinned/ removed from this view; which later can again be added using "**Add Chart**" button/ feature.

Creating Custom Chart

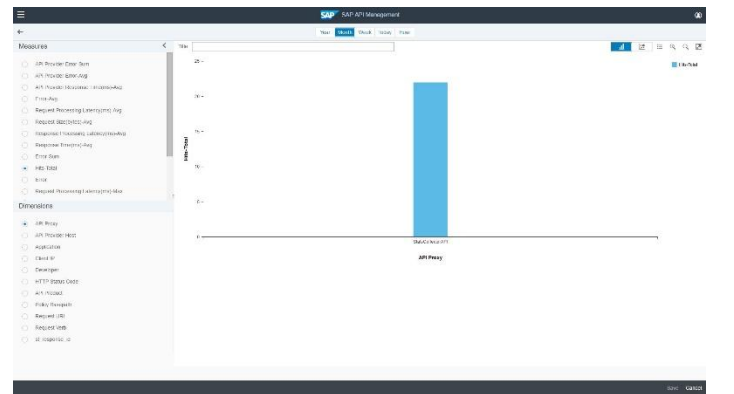
Explanation

1. In the Analytics Dashboard, click on Analyze Data button on the right side on the footer.

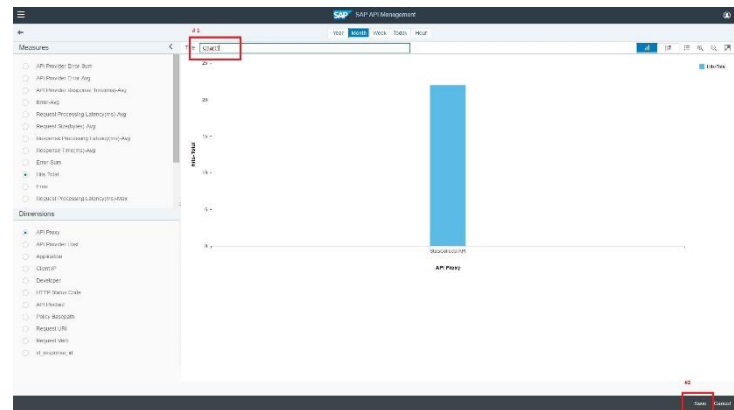
Screenshot



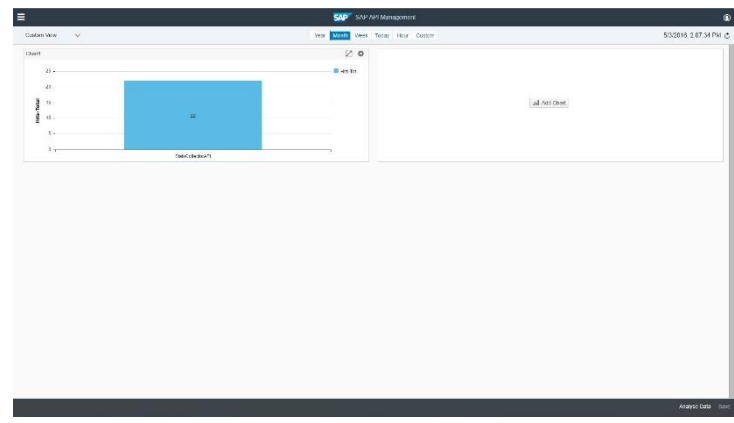
2. Choose the required measure and dimension. Then the required chart will get rendered. For example: select Hits-Total in Measures and API proxy in Dimension. Then API Proxy vs Hits Total Chart will be drawn for selected time period.



3. Save the chart – provide the Chart Title in the title box and then click **Save** in the footer to save the chart.

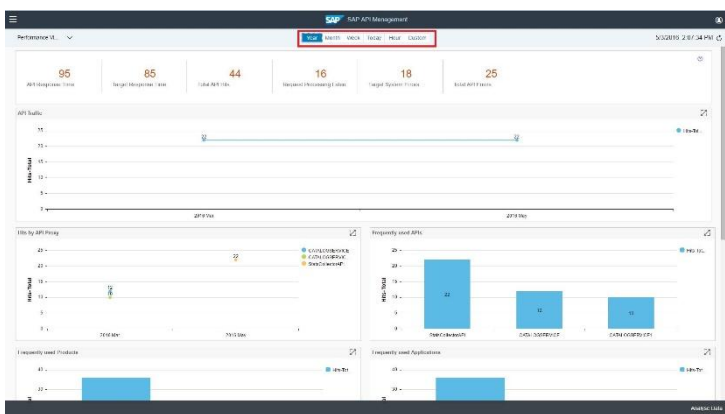
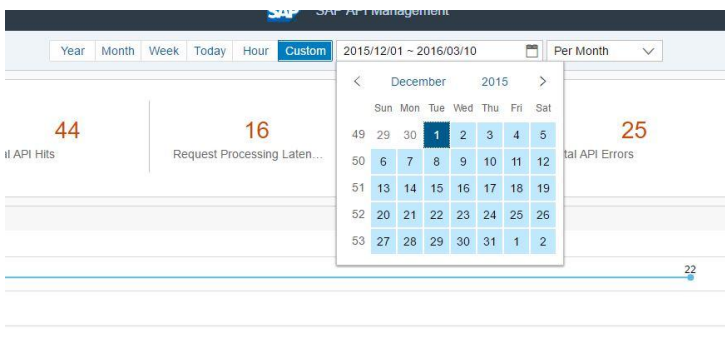


4. Now, the custom chart will be created with the given title. And, automatically, it will be attached/pinned in the custom view.




Changing the Time Period

For the Charts and KPIs in any of the views, we can change the time range and check the analytical behavior accordingly.

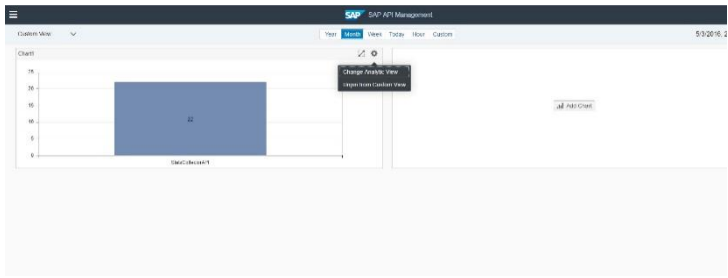
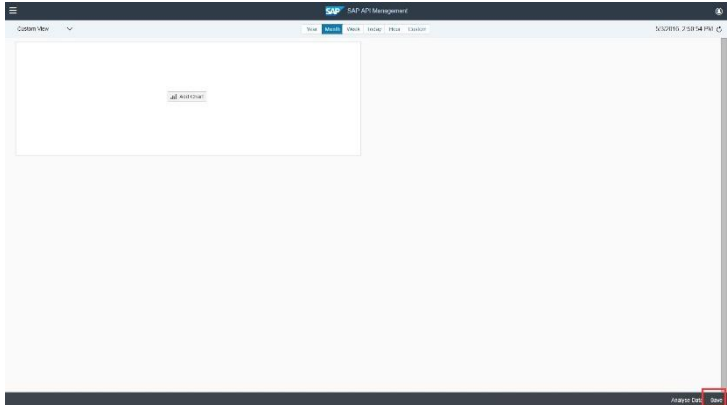
Explanation	Screenshot
1. Click on any of the time range and the Charts/ KPIs will show data for that time period.	
2. Custom date range can also be provided. Just click on Custom, and then choose the time range. It will show the data for given time range.	

Reloading the Charts/ KPIs

Explanation	Screenshot
1. To reload the data in the charts/ KPIs, you can click the reload button provided top right corner. Note: The time stamp shown is the last refresh/ reload time stamp.	

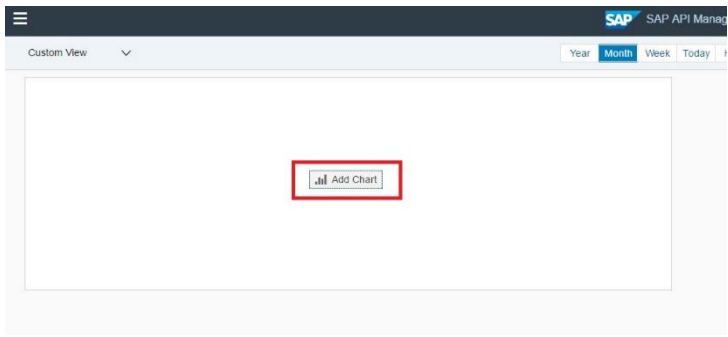
Removing the Custom Chart from Custom View

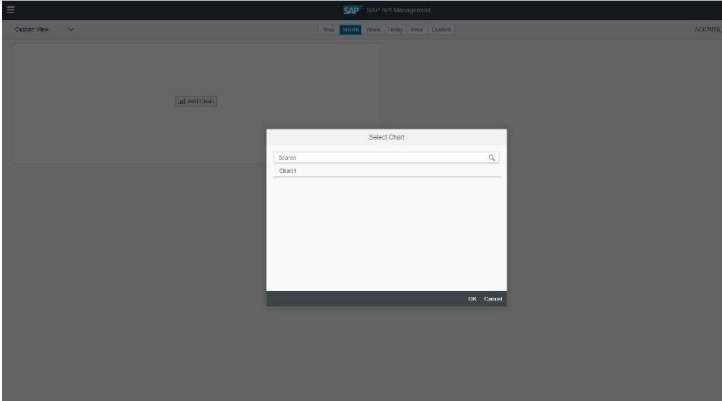
The created custom chart will automatically be attached to the Custom View. To remove/ unpin the custom chart from the custom view, then follow the following steps.

Explanation	Screenshot
<ol style="list-style-type: none"> 1. Click on the gear (settings) button of the custom chart. 2. Click on “Unpin from Custom View”. This will unpin the custom chart from the custom view. 	
<ol style="list-style-type: none"> 3. Click on the Save button on the right most corner. This will save the current state of the custom dashboard. So, this step will properly unpin the custom chart from custom view. 	

Adding the Unpinned Custom Chart to Custom View

The unpinned custom chart can be added back to the custom view.

Explanation	Screenshot
<ol style="list-style-type: none"> 1. Navigate to Custom View and click on the Add Chart button. 	

Explanation	Screenshot
<ol style="list-style-type: none">A pop up will be shown listing all the unpinned custom charts.Select the custom chart, you wish to add and click OK.	
<ol style="list-style-type: none">The selected custom chart will be added to the custom view.Now click on Save button (on right most corner) to save the state of the custom view.	