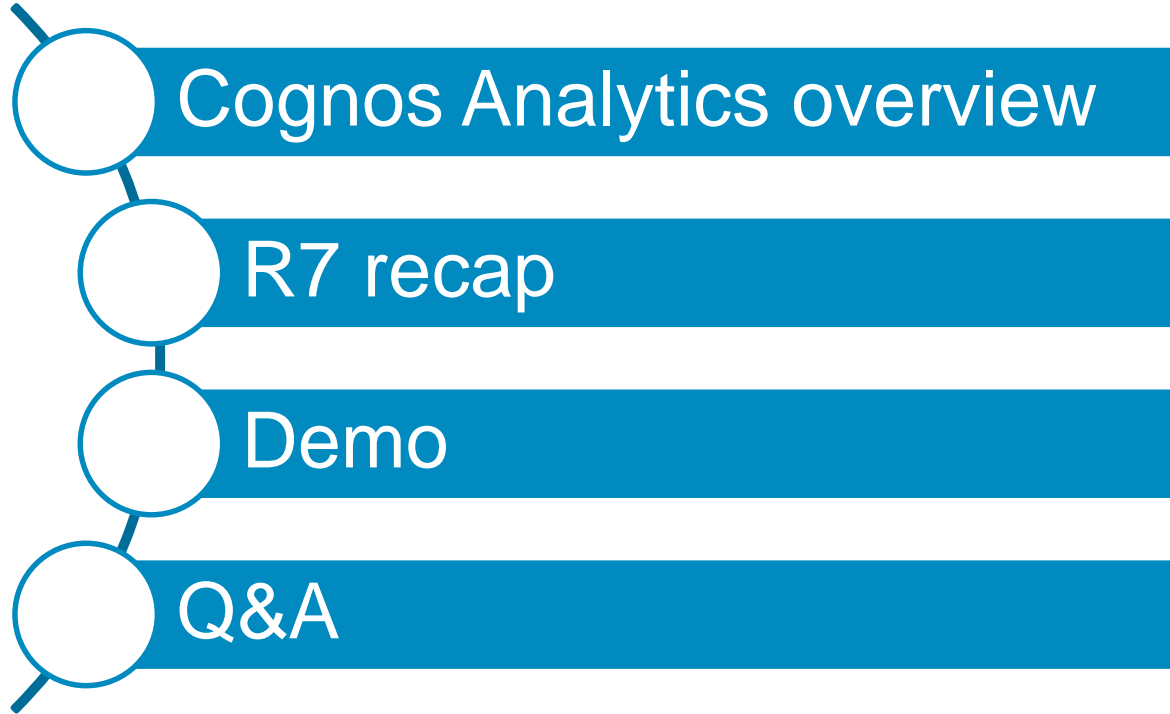


# IBM Cognos Analytics

## 11.0.7 (R7) Overview



# Agenda



# Cognos Analytics releases

- Continuous delivery for on premise and on the Cloud
- Contains defect fixes and enhancements
- Installs on top, it preserves your settings and configuration

**R4 – September 2016**

- Dashboard conditional highlighting
- Refresh timer for widgets
- Portal theming and extensibility
- Storytelling

**R6 – March 2017**

- OLAP support in Dashboards
- Dashboard widget connectivity
- Mapping enhancements
- Storytelling enhancements
- Shortcuts and report views

**R7 – August 2017**

- New UI for Portal, Dashboard and Modules
- Filter enhancements in dashboards and Reporting
- Additional visualizations
- New logging framework

**R3 – July 2016**

- Dashboard calculations and filters
- Multiple packages in Reporting
- Interactivity in modeling UI

**R5 – November 2016**

- FM packages in dashboards
- Mapping and new visualizations
- Infographics and nav model
- Embed and share content
- Portal customizations

**R7, R8...**

# Highlights – R7

## Make the old new

- Updated Dashboard, Modeling and Navigation User Experiences
- Package based drill in interactive viewer
- New logging framework
- PowerPlay 11

## Easier & easier to use

- Dashboard filter dock
- Filter Panel
- My parameters
- Interactive performance assistant

## Make it your own

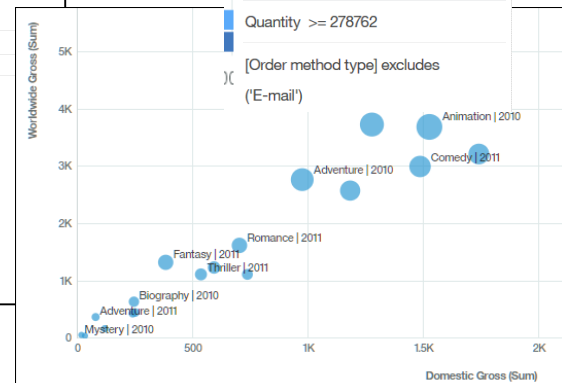
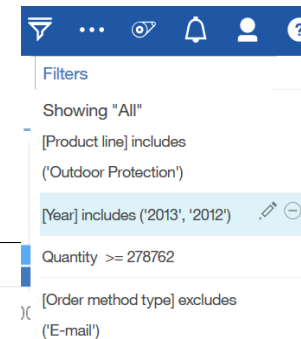
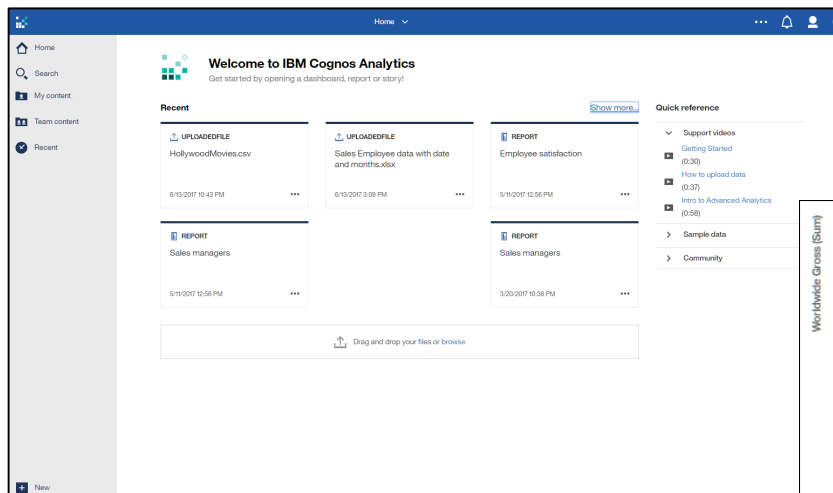
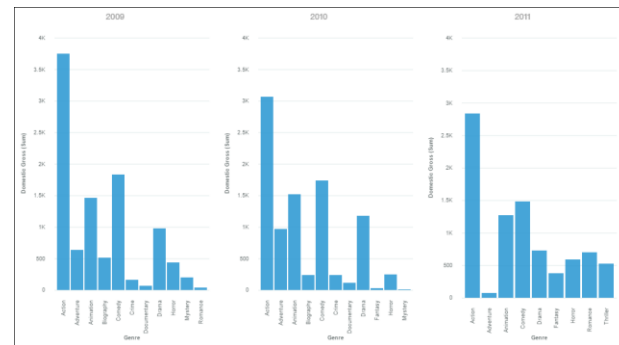
- 3<sup>rd</sup> party OpenID connect support
- Image library extension

## Communicate Findings through Storytelling

- Animated Path transitions

## See things clearly with Visualization Enhancements

- Maps in Reports
- Measures on Axis
- Labels (Single and Multiple)
- Repeaters
- New visualizations (Network, 100% stacked)

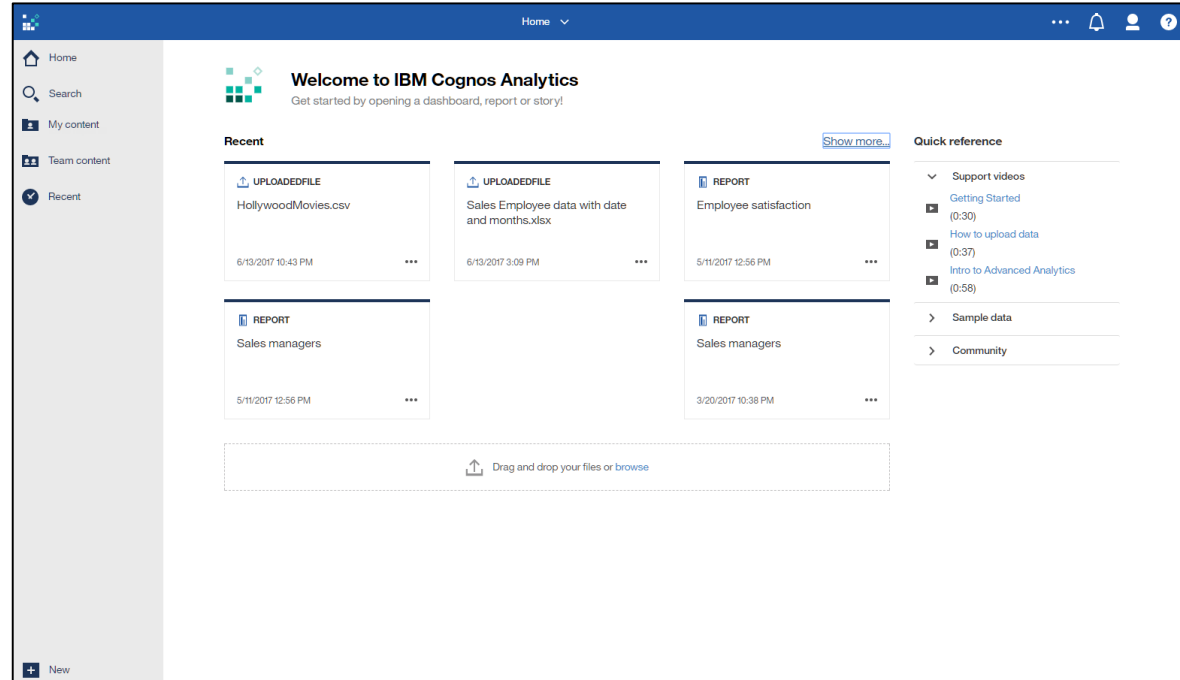


# Demonstration



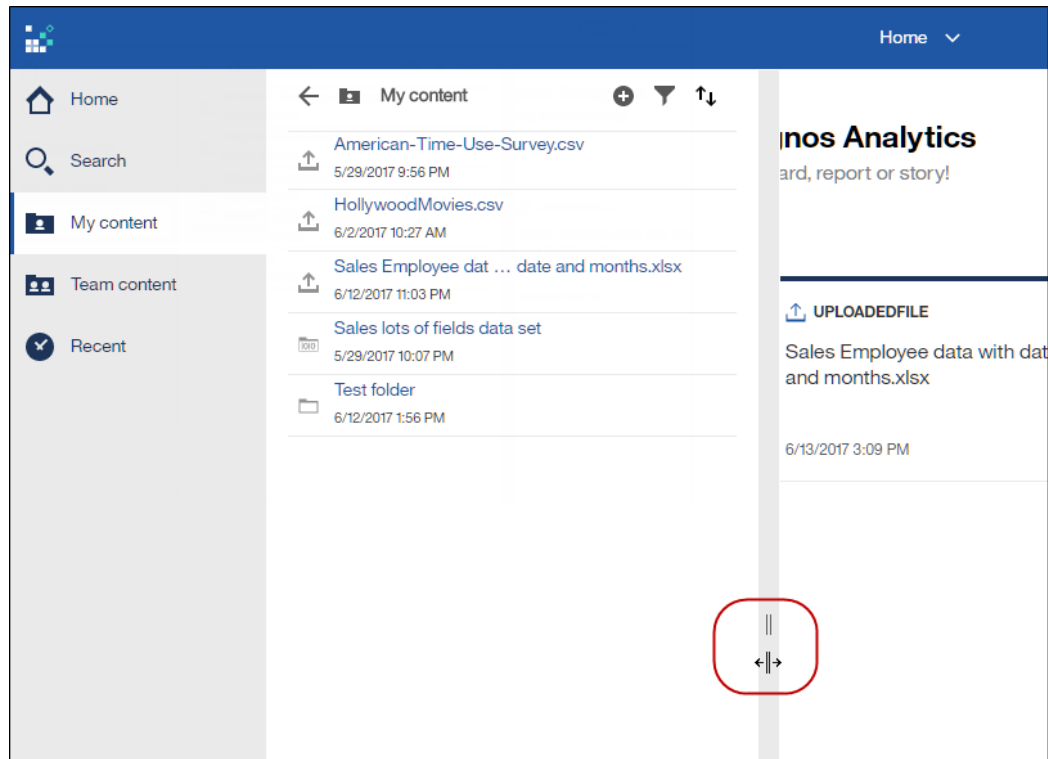
# Home page

- Redesigned Welcome page
- Easier to get started
- Quick reference links
- Recent items tiles



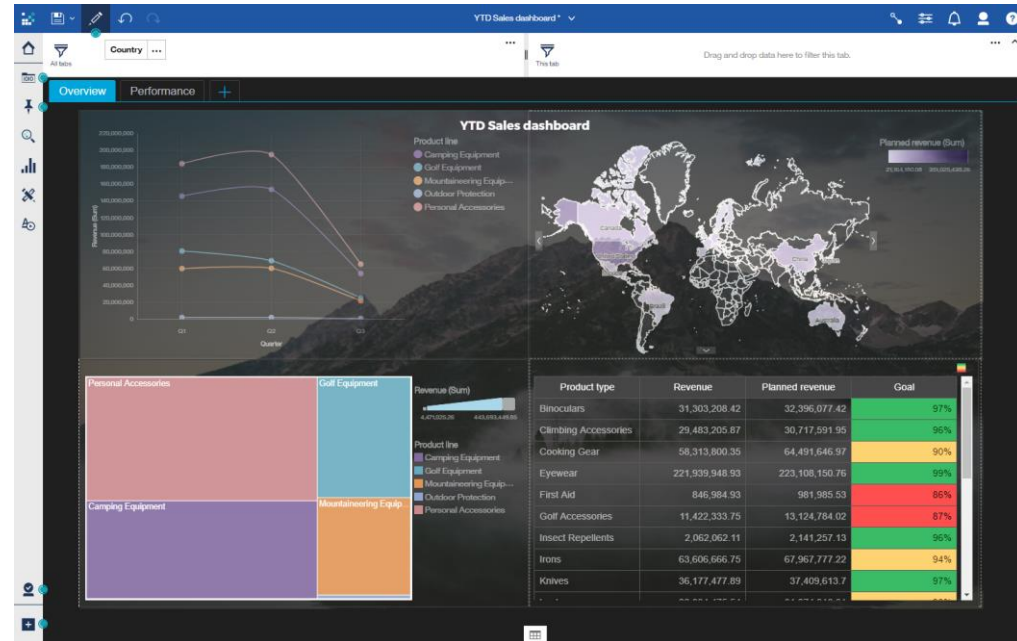
# Content navigation

- Redesigned navigation pane
- Single panel that now stretches
- Names automatically adjust to best fit the available width



# Dashboard - Filter enhancements

- Filter dock above the canvas
  - Frees up the canvas
  - Widgets are not affected by highlighting
  - Check boxes, sliders, hierarchy tree
- Condition-based filters (starts with...)
- Top/bottom on n values or percentile





# Dashboards - Advanced calculations

- Invoked from a single or multiple values
- Simple and advanced calculations
- Expression editor for more complex calculations

## Edit calculation

Column name

Goal

Create a calculation

Revenue

%

Planned revenue

[Use calculation editor](#)

OK

Cancel

## Calculation editor

Search

Name Goal

newModel

Sales Employee... Months Xlsx

- Year
- Quarter
- Month
- Month (numeric)
- Date
- Employee name
- Branch region
- Country
- Province or State
- Product line
- Product type
- Unit price

Expression

```
(Sales_Employee_data_with_date_and_months_xlsx_1.Revenue /  
(Sales_Employee_data_with_date_and_months_xlsx_1.Planned_revenue  
1.0))
```

co  
CONTAINS Keyword  
cos trigonometry  
coshyp trigonometry  
count Summary  
coalesce conversion  
arccos trigonometry  
\_second Time  
\_add\_seconds Time

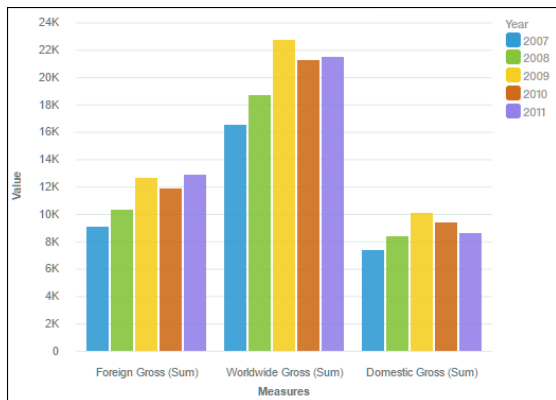
Validate

OK

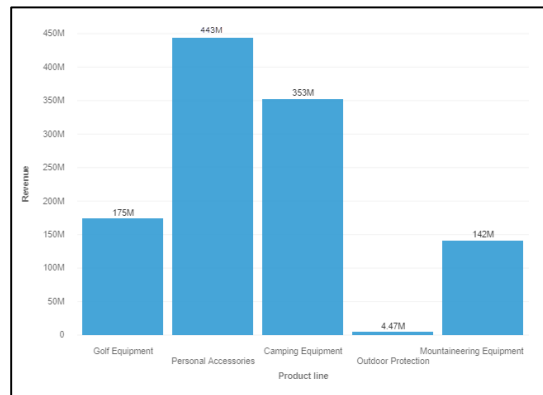
Cancel

# Dashboards - Visualization enhancements

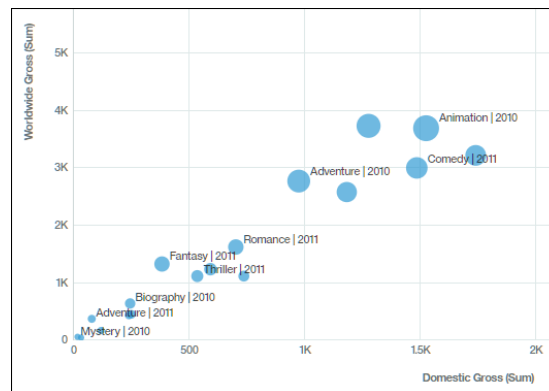
## Measures as attributes on axis



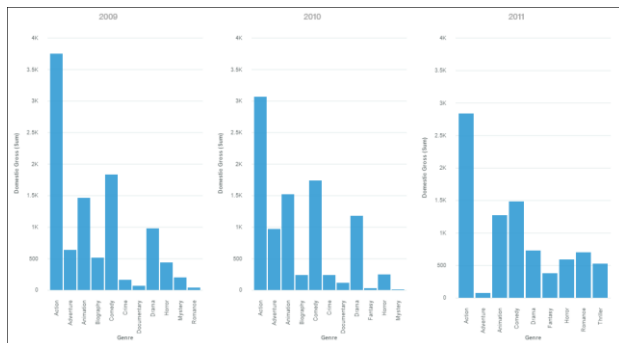
## Values on the charts



## Multiple attributes per label



## Repeaters

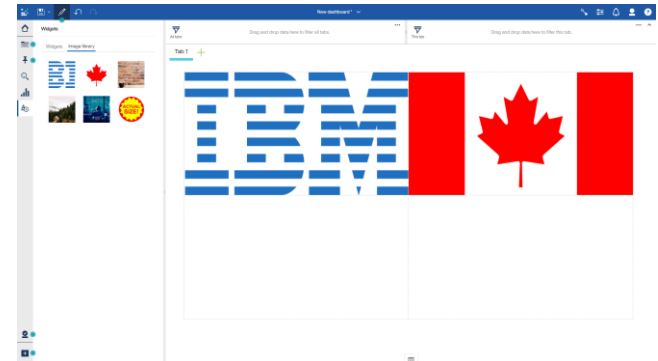
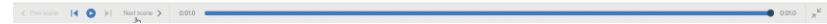
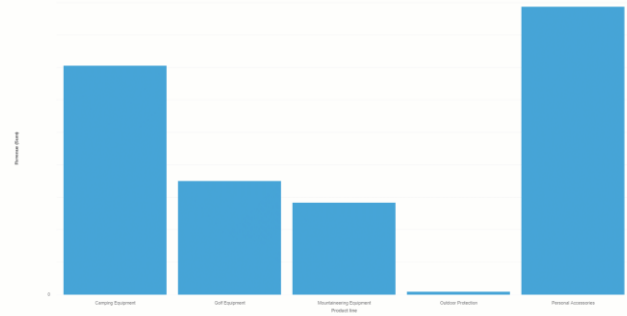


## Others

- Additional nested edges on crosstabs
- New visualizations (Network, 100% stacked)
- Better label placement

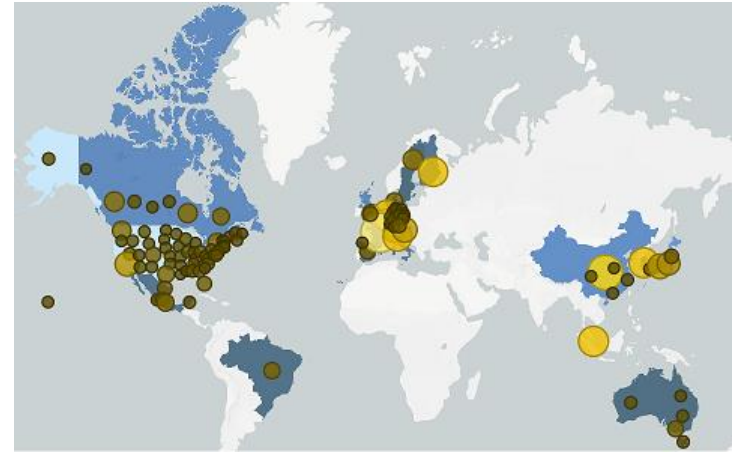
# Storytelling

- Animated Path
  - Allow transitions to keep items on the screen while directing focus to another area
- Image upload extension
  - Administrator controlled library of images uploaded via extensions that can be used across dashboard and stories



# Reporting

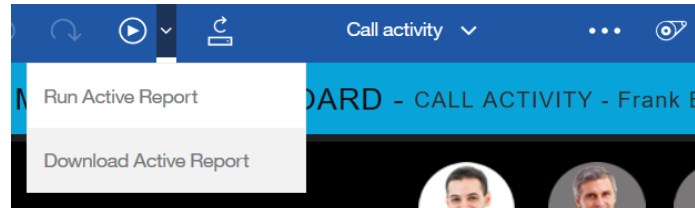
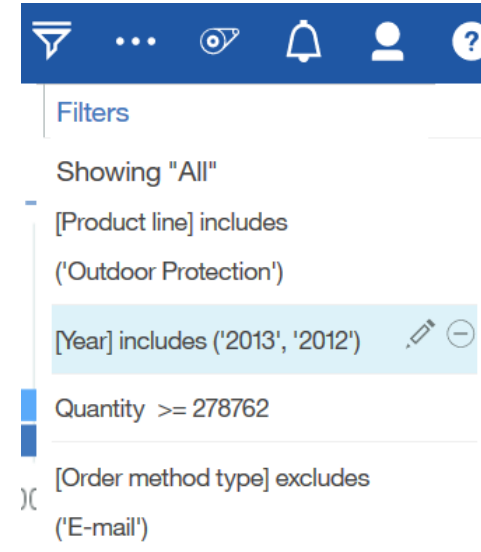
- Maps in standard reports
  - Supports two independent or joined layers
  - Pan & Zoom, Tooltips, maps styles
  - Warning dialog show all unmatched locations
- Navigation groups from data modules
  - Navigation groups visible under Data items tab of metadata panel
  - Supports navigate to any levels defined in a data module



Source	Data items	Quantity	
		2013	2012
Navigation groups	Mountaineering Equipment	706,814	857,202
	Outdoor Protection	189,222	380,789
	Personal Accessories	1,974,829	2,741,240
	Camping Equipment	1,442,220	1,850,493
	Golf Equipment	236,354	313,564
Product line - Product	Product line		
	Product type		
	Product		
Product line - Quarter	Product line		
	Product type		
	Year		

# Reporting

- Interactive filtering panel in viewer
  - Overview of all filters applied to the current report
  - Allows direct editing
  - Dynamically highlight report objects with each filter
- Active Report
  - Users can download an active report directly within viewer
  - Active reports now running under switcher



# Reporting

## ■ My parameters

- Can filter multiple reports using the same parameter values
- Administrator sets default values at Role level
- Supports importing parameters from existing reports
- Users can override default parameter values

### Parameters

<input checked="" type="checkbox"/> pProduct	<a href="#">Set values &gt;</a>
<input checked="" type="checkbox"/> Para_CurrentMgr	<a href="#">1 prompt values &gt;</a>
<input checked="" type="checkbox"/> p_department	<a href="#">1 prompt values &gt;</a>
<input checked="" type="checkbox"/> Country	<a href="#">Set values &gt;</a>

### < Customization

Themes Extensions Views Parameters

Define parameters to be used across reports.

 Import  New

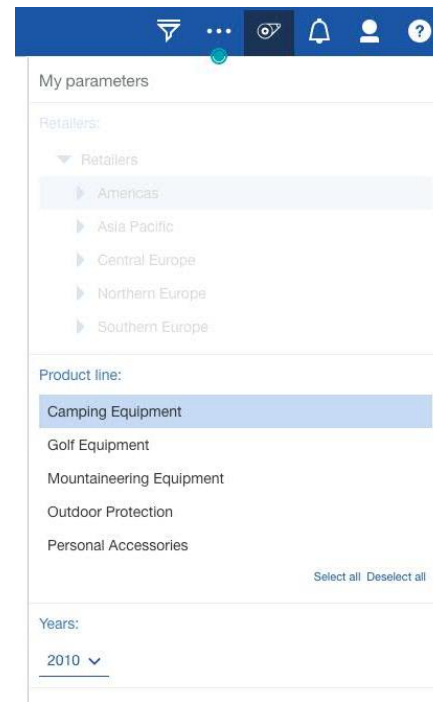
pProduct

Para\_CurrentMgr

### Detail filter expression - Query1

Available Components:

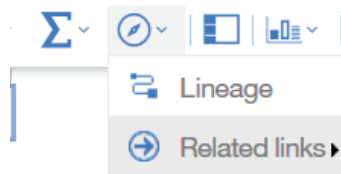
- Global Parameters
  - Para\_CurrentMgr
  - pProduct
  - p\_department
  - Country



The screenshot shows the top navigation bar with icons for filter, settings, eye, notifications, user, and help. Below the bar, the 'My parameters' section is visible. It includes a 'Retailers' section with a dropdown menu showing 'Americas', 'Asia Pacific', 'Central Europe', 'Northern Europe', and 'Southern Europe'. Below that is a 'Product line' section with a dropdown menu showing 'Camping Equipment', 'Golf Equipment', 'Mountaineering Equipment', 'Outdoor Protection', and 'Personal Accessories'. At the bottom, there is a 'Years' section with a dropdown menu showing '2010'.

# Reporting

- Package based drill-through
  - Directly available in Interactive viewer
  - Detailed selection context information
  - Supports upgraded package based drill-through reports running with full interactivity set to yes
  - Supports C10 dynamic filtering



Related links ✕

EXCEL

Most recent  
Packaged based on PL  
product line

▼ Advanced

Link name: EXCEL

Target  
Directory > Cognos > Anonymous > My Folders > QC > valuePrompt

Drill-through package search path  
/content/folder[@name='Samples']/folder[@name='Models']/package[@name='GO sales (query)']

Selection context

Item	Display value	Use value
Product line	Outdoor Protect...	Outdoor Protection
Quantity	12,014,445	12014445

OK Cancel

# Reporting

- View tabular data in all supported formats
- Ability to group repeating cells when export to Excel
- Interactive performance assistant
  - Shows querying and rendering performance on report objects
  - Available in HTML format in both viewer and preview mode within authoring
  - Also includes detailed information on Host machine name, Process ID, Session ID, Request ID and Hop count

Product line	Unit price
Camping Equipment	\$156.98
Golf Equipment	\$502.65
Mountaineering Equipment	\$101.11
Outdoor Protection	\$8.82
Personal Accessories	\$103.55
<b>Overall - Summary</b>	<b>\$123.40</b>

Execution Time: 274 ms ⓘ

Render: List1, 83 ms  
Query: Query1, 191 ms

Run options



☒ Include performance details



# Interactive Performance Assistant

- Find Performance Issue Earlier
  - Discover the performance issue right at the beginning of the report design process
- Find Performance right at the moment
  - Ideal to trouble shooting random production issue
- Live data view
  - Experience performance during live view report authoring process
- No Cost, or little Cost
  - No configuration, no additional resource required

# Interactive Performance Assistant

## Run options

Paper size:

(Default)

Paper orientation:

(Default)

Data mode:

All data

Language:

(Default)

Afrikaans

Afrikaans (South Africa)

Albanian

Albanian (Albania)

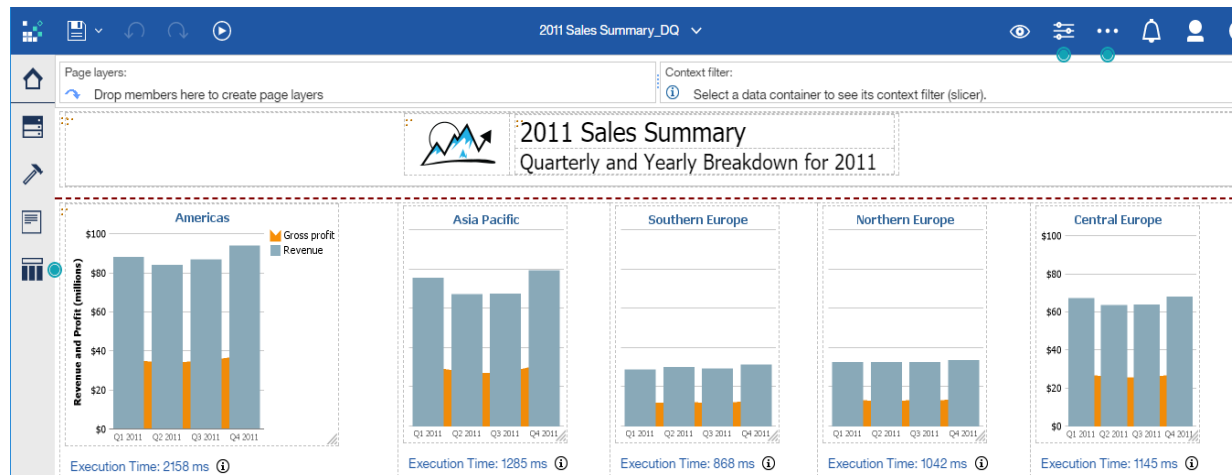
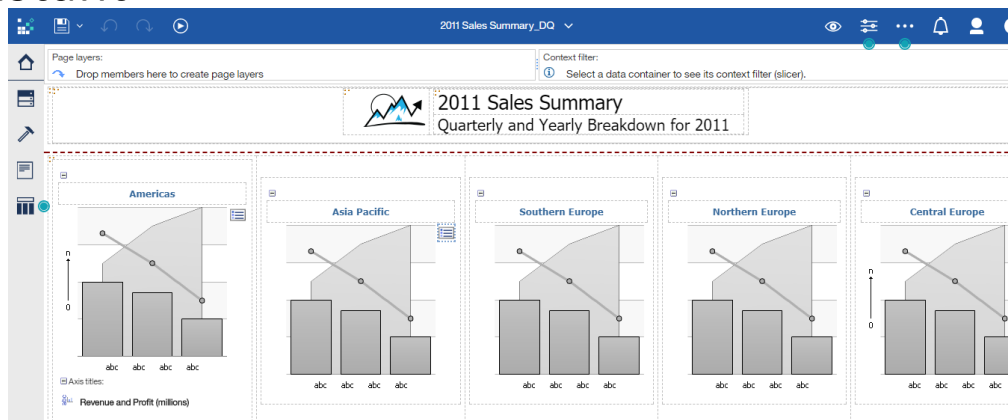
Amharic

Rows per page:

☒ Prompt☐ Include accessibility features☐ Enable bidirectional support☒ Include performance details

OK

Cancel



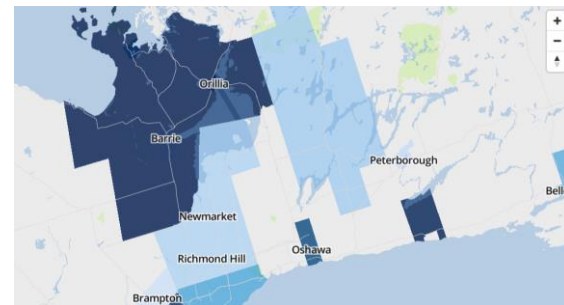
# Map Aliases

## Problem

- Pitney Bowes indexes shapes/polygons with the official names of their respective administrative regions, while the commonly used/local terms for the same regions are quite different.
  - Frankfurt's official name is '*Frankfurt am Main, Stadt*'
  - Cumberland's (a city in, Maryland) official name is '*District 22, Cumberland*'

## Solution

- Crowd source aliases from across IBM



Location	Path	Aliases
Frankfurt am Main, Stadt	DE@Hessen	Frankfurt # Frankfurt am Main #
Downtown Core	SG@Central Region	# 市中心 # Downtown #

## Results

- Location intelligence and accuracy has increased by over 30% for locations with English names (average)
- Accuracy increase of 100% for locations with local language names

# Data Access

- Revamped user experience for creating data modules
- Authentication
  - Dynamic parameters in JDBC URLs
  - Kerberos support for data modules
- Planning Analytics
  - Text measures in crosstabs
  - Manage-> Data server connections
    - Create data module
- New technologies
  - Presto
  - MemSQL (uses MySQL connection)
- New versions
  - Hive 2.1
  - Microsoft Analysis Services 2016
  - SAP BW 7.5
  - Many more...

# Text measures in crosstabs

New										
Retailer Type	1	2	3	4	5	6	7	8	9	10
Americas	Direct Marketing	Department Store	Equipment Rental Store	Department Store	Direct Marketing	Outdoors Shop	Department Store	Outdoors Shop	Warehouse Store	Sp
Asia Pacific	Eyewear Store	Direct Marketing	Department Store	Warehouse Store	Golf Shop	Sports Store	Warehouse Store	Department Store	Warehouse Store	Eyew
Europe										
Summary	--	--	--	--	--	--	--	--	--	--

# Planning Analytics connections within Manage area

- No need for legacy Cognos Administration interface
- Ability to create data modules on selected cubes

The screenshot illustrates the process of creating a data module within the IBM Analytics Manage area. It is divided into two main panels connected by a large blue arrow.

**Left Panel: Data server connections**

This panel shows a list of data server connections. The 'Planning Analytics' connection is highlighted with a red circle. The list includes various databases like IBM Informix Dynamic Server, InfoSphere BigInsights, MariaDB, Microsoft SQL Server, MongoDB Connector for BI, MySQL, Netezza, Oracle, Pivotal Greenplum and HDB, Postgres, Presto, SAP HANA, SAP Sybase IQ and ASE, Snowflake, Teradata, and Teradata Presto.

**Right Panel: My PA Server**

This panel displays the details of the 'My PA Server' connection, including the owner (Unknown), creation and modification dates (6/26/2017), and type (Connection). It also shows tabs for General, Settings, Cubes, and Permissions.

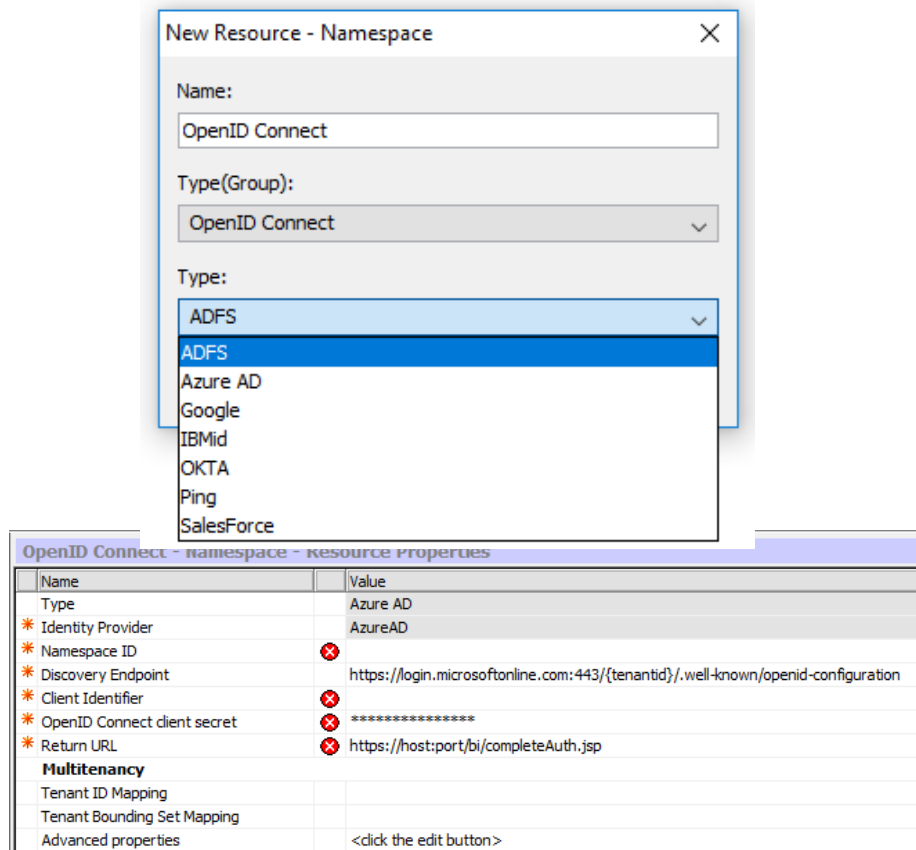
**Cubes List**

Under the 'Cubes' tab, a list of cubes is shown. The 'CATALOG/Base Sales Forecast' cube is selected, and a 'Create data module' button is visible next to it. Other cubes listed include CATALOG/Currency Info, CATALOG/Exchange Rates, CATALOG/Gross Margin Calculation, CATALOG/New Store Plan, CATALOG/Product, CATALOG/Promotions Plan, CATALOG/Store Cost, and CATALOG/Store Sales Plan.

**Bottom Left:** A small icon of a person is visible in the bottom left corner of the interface.

# OpenID Connect

- 7 OIDC providers
- Simple to configure
- Easy to add new providers as we move forward
  - Custom option is available
- Available on premise or on cloud
- SAML 2.0 is available ONLY via IBMID
  - Customers should be cautioned on user experience



**New Resource - Namespace**

Name: OpenID Connect

Type(Group): OpenID Connect

Type: ADFS

ADFS  
Azure AD  
Google  
IBMid  
OKTA  
Ping  
SalesForce

**OpenID Connect - namespace - resource properties**

Name	Value
Type	Azure AD
* Identity Provider	AzureAD
* Namespace ID	✗
* Discovery Endpoint	https://login.microsoftonline.com:443/{tenantid}/.well-known/openid-configuration
* Client Identifier	✗
* OpenID Connect client secret	✗ *****
* Return URL	✗ https://host:port/bi/completeAuth.jsp
<b>Multitenancy</b>	
Tenant ID Mapping	
Tenant Bounding Set Mapping	
Advanced properties	<click the edit button>

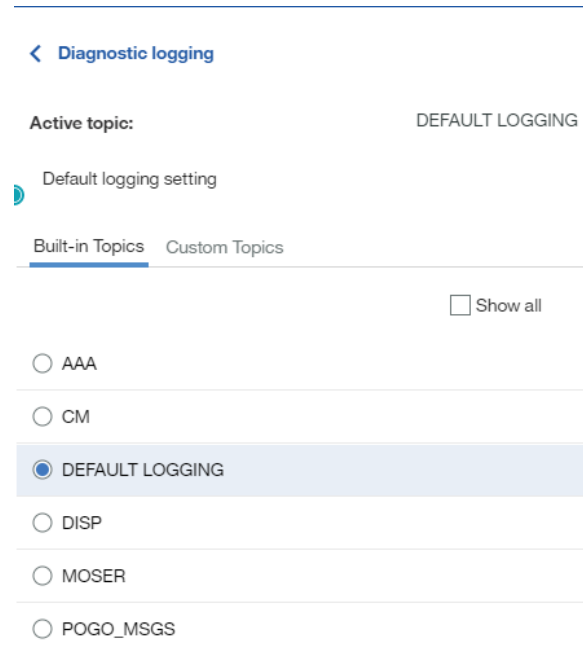
# Logging Framework

## Advantages:

- No more naming files: ipfaaclientconfig.xml.sample
- No more restarting of services

## Types of Logging

- Session Logging
  - User session for reproducible problems
- Diagnostic Logging browser-based administration
  - Use for intermittent or service-specific problems
- Interactive Performance Assistant Logging
  - IPA customers self diagnose performance or tuning related issues before logging a PMR
  - Report Performance Challenges in a Distributed Environment

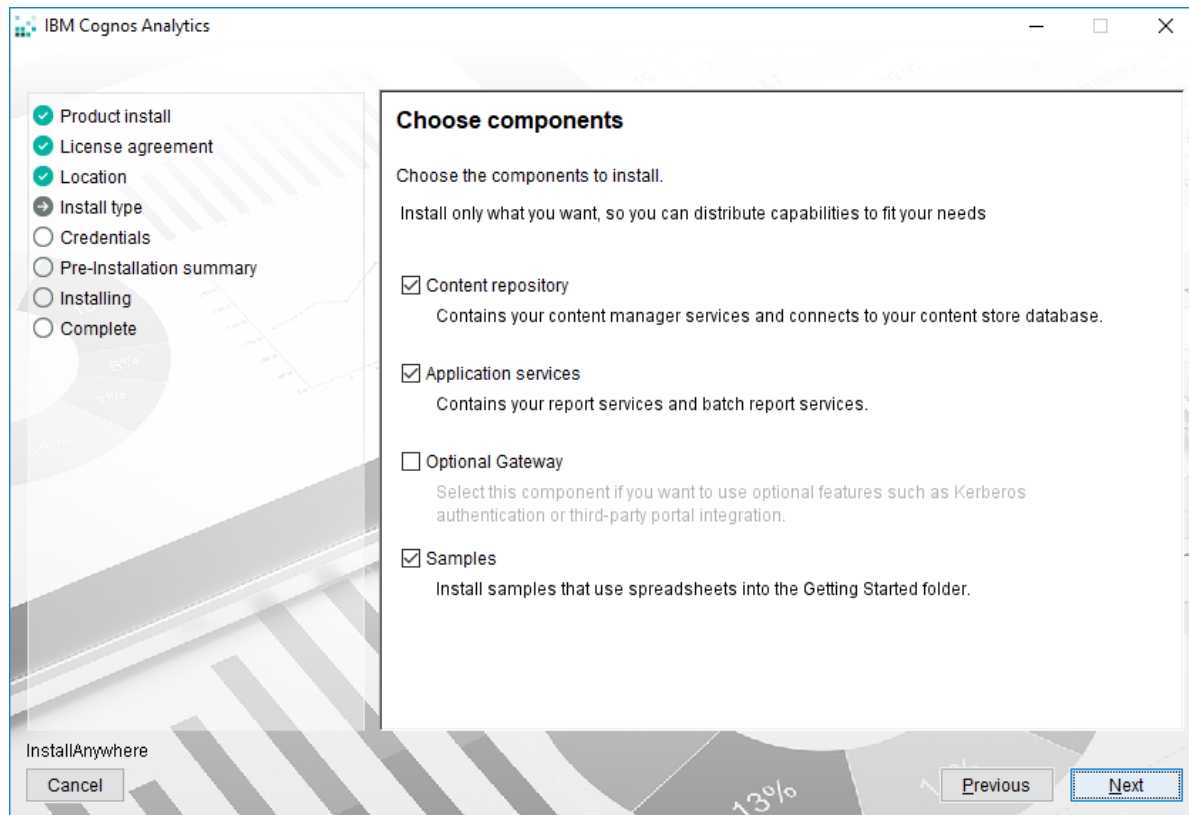




# Installation options

No requirement to install, configure and start the content manager

- All tiers available
- Connect and install available



# Security update

- Everyone removed from everywhere but System Administrator
- New Cognos Roles map directly to new CA11 Licence feature
- Customers upgrading don't lose anything
- New customers get new model
- Recommend customers start using new roles

IBM Cognos Administration

Greg McDonald | Log Off

Status Security Configuration Library Multitenancy Mobile

Users, Groups, and Roles

Capabilities

Directory > Cognos

Name
All Authenticated Users
Analysis Users
Analytics Administrators
Analytics Explorers
Analytics Users
Anonymous
Authors
Consumers
Directory Administrators
Everyone
Information Distribution
Library Administrators
Mobile Administrators
Mobile Users
Modelers
Portal Administrators
PowerPlay Administrators
PowerPlay Users
Query Users
Readers
Report Administrators
Server Administrators
System Administrators
Tenant Administrators

**Licenses**

Environment type

☐ Production

☒ Non-production

**Global license usage**

Used licenses represent the number of users that have accessed the product. You can set the number of owned licenses and view the license usage by user.

Licenses	Used	Owned
Analytics Administrator	1	0
Analytics Explorer	0	0
Analytics User	0	0
Information Distribution	0	0
<b>Total (global licenses)</b>	<b>1</b>	<b>0</b>


Export Refresh


Last refresh Aug 9, 2017 8:13 AM

Apply Cancel

Last refresh time: 9 August, 2017 8:00:29 AM

# Multi tenancy updates

 Tenant 1

 Owner  
Greg McDonald

Created: 2017-8-9 8:22 AM  
Modified: 2017-8-9 8:22 AM  
Type: Tenant

General Customization Regional Members Notifications


Description  
tenant description


Advanced ^

Disable this entry ☒

Tenant id TenantID1

Location Directory > Tenants

 Tenant 1

 Owner  
Greg McDonald

Created: 2017-8-9 8:22 AM  
Modified: 2017-8-9 8:22 AM  
Type: Tenant

General Customization Regional Members Notifications


Time zone (GMT-05:00) United States Time (New York) >

Product language English >

Content language English >

Bidirectional language support ☐

ation for text Contextual ▾

 Owner  
Greg McDonald

Created: 2017-8-9 8:22 AM  
Modified: 2017-8-9 8:22 AM  
Type: Tenant

General Customization Regional Members Notifications


Home page Default >

Features Default >

Themes Default >

Custom folder >

Parameters Settings >

 Owner  
Greg McDonald

Created: 2017-8-9 8:22 AM  
Modified: 2017-8-9 8:22 AM  
Type: Tenant

General Customization Regional Members Notifications

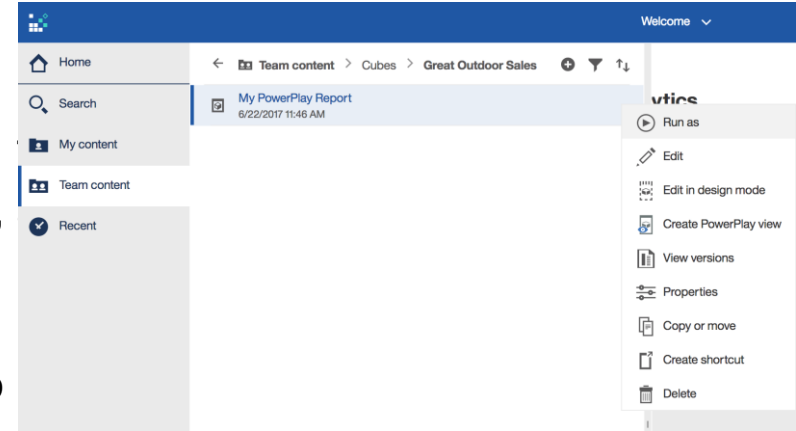
☒ Default Sender  
notifications@cognos.ibm.com

☐ Tenant Sender  
Enter sender email address

Apply

# PowerPlay 11

- Updated versions of PowerPlay Windows client, PowerPlay Studio, and Transformer
  - Updated O/S conformance, including Windows
  - Updated browser conformance for Chrome, IE, Firefox
  - Functionally the same as 10.2.2 products
- PowerPlay reports and report views integrated into Cognos Analytics portal
  - Reports/studio run in separate browser tab(s)
- Separate installation for PowerPlay products, uses CA portal
- On PowerPlay Server startup, PowerPlay Studio immediately available in Cognos Analytics



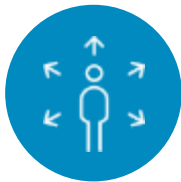
# IBM Analytics University 2017 at a Glance

*Fast-track your insights*



## 75+ sessions

Learn in a specialized curriculum with highly curated sessions, workshops, and hands-on labs.



## Network

Share ideas and connect with peers, thought leaders, technology gurus, executives and experts from IBM.



## Curriculum

Four distinct tracks:

- Analytics for all
- Architecture and Technology
- Insight to Action
- Performance Management

## Berlin October 10-13

Standard Rate  
2095 €



## New Orleans October 17-19

Standard Rate  
\$1595



[ibm.co/AnalyticsU](http://ibm.co/AnalyticsU)

## Useful links

- Main Cognos Analytics page
  - <http://www.ibm.biz/cognosanalytics>
- Community:
  - <https://www.ibm.com/communities/analytics/cognos-analytics/>
- Free trial
  - <https://ca-trial.mybluemix.net/>
- Documentation
  - [http://www.ibm.com/support/knowledgecenter/SSEP7J\\_11.0.0/](http://www.ibm.com/support/knowledgecenter/SSEP7J_11.0.0/)
- Upgrade guide
  - <http://www-01.ibm.com/support/docview.wss?uid=swg21981350>

