



**NY Power
Authority**

ASUG 2022

**Adobe Forms at
New York Power Authority**

April 7, 2022

Agenda

- Background of Form Printing in New York Power Authority
- SAP Adobe Forms – Overview
- Business Cases

Presenter

- Heena Mehta
 - Title: SAP CoE Manager
 - Email: Heena.Mehta@nypa.gov

- Amit Dahiya
 - Title: SAP Lead Developer
 - Email: Amit.Dahiya@nypa.gov

Background

In New York Power Authority many of the forms were implemented long time ago nearing the first implementation back in 1998. Mainly SAP Script was used initially and then NYPA transition over to SmartForms with time. NYPA also used third party tools like StreamServe for Bill Prints.

However, with ever increasing business needs fast turn around time was required, and better formatted forms needed. NYPA is transitioning to PDF based forms.

Transition to PDF Forms (from SmartForms)

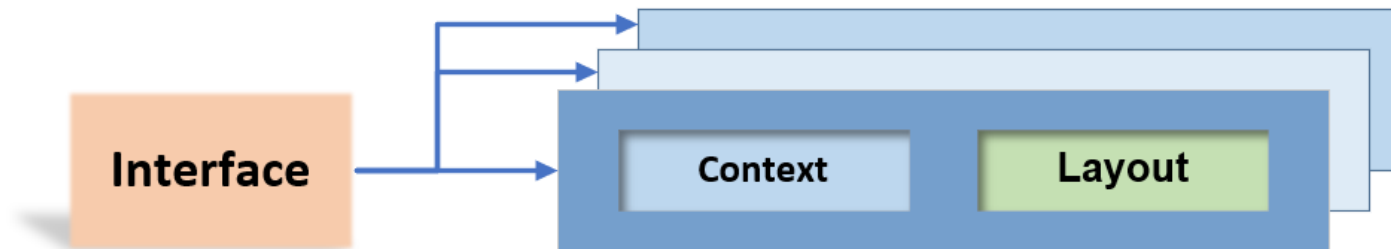
- Multiple Page Layout support and graphical editor is easy-to-use and has many more functionalities
- Reads data from SAP and displays it in PDF format as opposed to GUI display
- Interactive Forms to save data in SAP
- Form retains its appearance regardless of the environment
- Adobe document security options are possible like Digital signature validation, Disable save, select or Print option

SAP Adobe Forms – Overview

SAP Interactive Forms by Adobe is the latest form technology which is rendered by SAP and Adobe to create and edit PDF forms for printing in SAP systems.

An activated PDF-based form corresponds to a callable function module in the SAP system. The application program uses the function module interface to send the data. Therefore, the data collection process is split from the logic of the form. This means that you only need to adjust the form when you modify the logic or layout.

Transaction Code - **SFP**



PDF-Based Forms

Business Cases

Employment Verification Letter

A formal acknowledgment by an employer that an employee works for the company.

Features

- Real Time Information as of current date
- Single form for NYPA and Canals
- Zero Hard coding
- Available on Portal and SAP GUI



Date: March 31, 2022

To Whom It May Concern:

John Doe is currently employed by the New York Power Authority and has been since January 1, 2021. John's current title is 'Senior Developer' and current annual salary is \$100,000.00. This employee works full-time and is paid on a bi-weekly basis.

If you have questions, please contact HR.Services@nypa.gov or call us at 914-287-3114.

Sincerely,

Sr. Employee Services Representative
Human Resources & Administration
New York Power Authority
123 Main Street
White Plains, NY 10601

Employment Verification Letter

A formal acknowledgment by an employer that an employee works for the company.

Challenges

- Script for hiding various elements of forms based on execution
- Coding in interface for the data extraction



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Total Rewards Statement

Total Rewards Statement (TRS) shows the value of many of the components that make up total rewards package.

Features

- Real Time Information as of current date
- Ability to run for past and future statements based on date
- Dynamic Bar Chart
- All calculations happen in Interface
- Little to no Hard coding



2022 Management Employee
Total Rewards Statement
Effective: March 31, 2022

NYP&A is pleased to provide you with your personalized Total Rewards Statement (TRS) to help you better understand the value of your compensation and benefits. While your annual compensation is the largest portion of your total package, a significant portion is provided by NYP&A through indirect pay for health insurance, retirement, and other benefits that support your financial security needs and provide protection for you and your family. Visit the Employee Self Service portal on MyPageNYP&A for FAQs about the statement. Information about the benefit plans is available at www.nypa.gov/benefits, or you can contact your site HR representative or email HR_Services@nypa.gov.

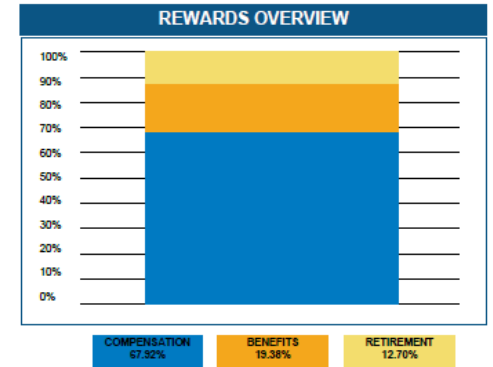
YOUR PERSONAL INFORMATION		
Employee Name : John Doe	Employee Number : 00095745	Location : White Plains

COMPENSATION		
Annual Base Salary(1)	\$	100,000
	Employee Contribution	NYP&A Contribution

BENEFITS		
Medical	\$ 6,014	\$ 23,322
Dental	\$ 0	\$ 0
Vision	\$ 140	\$ 205
Aflac Cancer Protection	\$ 0	\$ 0
Aflac Accident Expense	\$ 324	\$ 0
AD&D	\$ 0	\$ 0
Group Legal Plan	\$ 0	\$ 0
FSA - Healthcare	\$ 0	\$ 0
FSA - Dependent Care	\$ 0	\$ 0
Life Insurance	\$ 0	\$ 104
Life Insurance (Spouse)	\$ 0	\$ 0
Life Insurance (Children)	\$ 0	\$ 0
Long Term Disability	\$ 0	\$ 260
Flex Credit Allowance	\$ 0	\$ 4,650
SUBTOTAL	\$ 6,478	\$ 28,541

RETIREMENT PLANS		
NYSLRS Estimated Contribution(2)	\$ 5,750	\$ 15,700
401(k) Plan Estimated Contribution(3 4)	\$ 20,500	\$ 3,000
457 Plan Estimated Contribution(3 4)	\$ 20,500	\$ 0
SUBTOTAL	\$ 46,750	\$ 18,700

TOTAL REWARDS SUMMARY	
COMPENSATION(1)	\$ 100,000
BENEFITS	\$ 28,541
RETIREMENT PLANS	\$ 18,700
TOTAL REWARDS VALUE	\$ 147,241



Notes:

1. Does not include any 2022 overtime earnings
2. NYP&A's annual employer contribution to the NYS Retirement system funds the retirement benefits of all members of the Retirement system and is not deposited into an individual account.
3. Based on the percentage you were contributing to the plan as of 03/31/2022.
4. Does not include 401(k) and 457 Catch-Up Contribution.



Total Rewards Statement

Total Rewards Statement (TRS) shows the value of many of the components that make up total rewards package.

Challenges

- Dynamic Bar Chart
- Percentage calculated in Interface and PZ Bar chart used
- Dynamic Maintenance of texts and Plan grouping
- All custom text maintained
- Over 100 Conditions and rules for data
- Custom Table used for all variables based on Date Key



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YOUR PERSONAL INFORMATION		
Employee Name : John Doe	Employee Number : 00095745	Location : White Plains

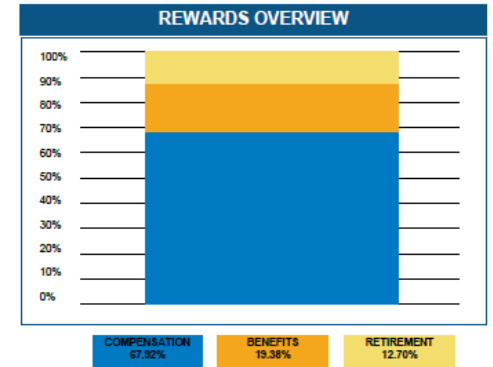
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Annual Base Salary(1)	\$ 100,000

	Employee Contribution	NYP&A Contribution
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4. Does not include 401(k) and 457 Catch-Up Contribution.



Utility Billing

Multiple Utility bills sent to customers using Adobe Forms

Features

- Simplified Design with additional information
- Over 9,000 Pages in single Bill Print (No Limit)
- Sent directly to Business Partner
- Stored in Simulated and Final Folders for Tracing
- Script Handling for Page Breaks and Header Display
- Values and Fields toggle based on presence
- Exact Format as of Previous Invoice
- Enhanced Performance



Your Billing specialist is:
MATTIE RAMNARACE
If you have any questions call:
(914) 267-4642
or 1-800-269-6972, then 718-4642

Invoice # 6100062611
Billing Period : January 2018
Invoice Date : February 06, 2018
Payment Due : February 16, 2018

Internal Reference Page Only
Print Date: 04/19/2021
Print Time: 5:31:55 PM

Page 1
Business Office
Attention:
MS.
Business Partner # 3512
Contract Account # 100000187

Previous Balance	\$	37,425.00
Payment Received	\$	37,425.00
Past Due Balance	\$	0.00
Current Charges	\$	30,339.18
Late Charges	\$	0.00
Payment Adjustments	\$	0.00
Total Amount Due	\$	30,339.18

Preferred payment method: The easiest way to pay is online at <https://account.nypa.gov/billing>
Make remittance payable to the New York Power Authority:

WIRE AND ACH FUNDS TO:	OR REGULAR MAIL:	OR OVERNIGHT MAIL:
JP MORGAN CHASE BANK ABA# 021000021 NEW YORK POWER REVENUE FUND ACCOUNT # 008 - 030383	NEW YORK POWER AUTHORITY DEPARTMENT 116048 PO BOX 5211 BINGHAMTON NY 13902-5211	J.P.MORGAN ATTN: NY POWER AUTHORITY BOX# 116048 33 LEWIS ROAD BINGHAMTON NY 13905

PLEASE INDICATE YOUR CONTRACT ACCOUNT NUMBER ON YOUR REMITTANCE

SPECIAL NOTES

DEV / 091 6100062611



Utility Billing...continued

Multiple Utility bills sent to customers using Adobe Forms.

Challenges *(and solutions)*

- Complex page formats with Page Breaks and Headers
 - ✓ Created two separate Forms for first 3 pages and other for all remaining pages till end of Bill.
 - ✓ Conditional Page Breaks for each contract and making it exactly like previous Layout
- Number of Page limitation – maximum 2000 Pages
Only in conventional Adobe Form
 - ✓ Process one contract at a time in loop and create separate page for each contract
 - ✓ Join all pages in one file in the end

PORT AUTHORITY OF NEW YORK AND NEW JERSEY
WORLD TRADE CENTER ECONOMIC RECOVERY PROGRAM 04/2021

Page 3

	ENERGY(KWH)	DEMAND(KW)	REACTIVE (kVAR)	PRODUCTION	DELIVERY	TOTAL
METERED	4,880	13.60	0.00	\$ 320.37	\$ 421.32	\$ 741.69
FIXED COSTS	0	0.00	0.00	\$ 60.49	\$ 0.00	\$ 60.49
CLEAN ENERGY STND ZECs	0	0.00	0.00	\$ 20.89	\$ 0.00	\$ 20.89
METERED ADJUSTMENTS	0	190.40 CR	0.00	\$ 870.17 CR	\$ 5,374.98 CR	\$ 6,245.15 CR
CLEAN ENERGY STND ZECs ADJ	0	0.00	0.00	\$ 0.00	\$ 0.00	\$ 0.00
FIXED COST ADJ	0	0.00	0.00	\$ 0.00	\$ 0.00	\$ 0.00
GROSS RECEIPT TAXES				\$	\$ 119.21 CR	\$ 119.21 CR
ELECTRIC CHARGE	4,880	176.80 CR	0.00	\$ 468.42 CR	\$ 5,072.87 CR	\$ 5,541.29 CR
OVERHEAD	0	0.00	0.00	\$ 0.00	\$ 0.00	\$ 110.85 CR
SUBTOTAL	4,880	176.80 CR	0.00	\$ 468.42 CR	\$ 5,072.87 CR	\$ 5,652.14 CR
SURCHARGES						
Standby Performance Cost				\$	\$ 1.78	\$ 1.78
Dynamic Load Management				\$	\$ 13.84	\$ 13.84
RDM Adjustment Charges				\$	\$ 92.70	\$ 92.70
Earning Adjustment Mechanisms				\$ 0.00	\$ 4.66	\$ 4.66
SALES TAX	0	0.00	0.00	\$ 0.00	\$ 0.00	\$ 491.60 CR
TOTAL	4,880	176.80 CR	0.00	\$ 468.42 CR	\$ 4,959.89 CR	\$ 6,030.76 CR

TOTAL CARRIED FORWARD TO INVOICE # 6100096200 : \$ 6,030.76 CR



Utility Billing...continued

Multiple Utility bills sent to customers using Adobe Forms.

Challenges *(and solutions)*

- System and Usage Errors during Form Prints
 - ✓ Debugging Form %work
- SOAP Runtime Exception Error
 - ✓ ABAP & JAVA Stack communication error
- Complex Calculations and E-Files generation
 - ✓ Handled in User Exit

NEW YORK POWER AUTHORITY
BILLING AND ADJUSTMENT STATEMENT FOR THE BILLING PERIOD 04/2021

Page 5

CONTRACT ACCOUNT #		300000039		BUSINESS PARTNER #		4049								
CUSTOMER NAME:		[REDACTED]												
BILLING PERIOD	METER NUMBER	METER TYPE	READING DATE PRESENT	READING DATE PREVIOUS	# DAYS	RDG TYPE	READINGS PRESENT	READINGS PREVIOUS	DIFF	CONST	ENERGY (KWH)	DEMAND(KW)(KVAR) HIGH	DEMAND(KW)(KVAR) LOW	
	6147980	DMD ORG	01/04/21	12/02/20	33	ACT	12.8	0	12.8	1.00			12.80 CR	
	6147980	DMD REV	01/04/21	12/02/20	33	ACT	12.8	0	12.8	1.00			12.80	
	6147980	DMD NET			0		0	0	0	1.00				
											NET ACCT. ADJ. FOR 01/21	0	0.00	0.00
											ORG ACCT. BAL AS OF 01/21	5440 CR	0.00	12.80 CR
											REV ACCT. TOTAL	5440	0.00	12.80
12/20	ADJ	6147980	ENG ORG	12/02/20	10/29/20	34	ACT	6800	0	6,800	1.00	6800 CR		
		6147980	ENG REV	12/02/20	10/29/20	34	ACT	6800	0	6,800	1.00	6800		
		6147980	ENG NET			0		0	0	1.00				
		6147980	DMD ORG	12/02/20	10/29/20	34	ACT	17.6	0	17.6	1.00		17.60 CR	
		6147980	DMD REV	12/02/20	10/29/20	34	ACT	17.6	0	17.6	1.00		17.60	
		6147980	DMD NET			0		0	0	1.00				
											NET ACCT. ADJ. FOR 12/20	0	0.00	0.00
											ORG ACCT. BAL AS OF 12/20	6800 CR	0.00	17.60 CR
											REV ACCT. TOTAL	6800	0.00	17.60
11/20	ADJ	6147980	ENG ORG	10/29/20	09/30/20	29	ACT	6320	0	6,320	1.00	6320 CR		
		6147980	ENG REV	10/29/20	09/30/20	29	ACT	6320	0	6,320	1.00	6320		
		6147980	ENG NET			0		0	0	1.00				
		6147980	DMD ORG	10/29/20	09/30/20	29	ACT	11.2	0	11.2	1.00		11.20 CR	
		6147980	DMD REV	10/29/20	09/30/20	29	ACT	11.2	0	11.2	1.00		11.20	
		6147980	DMD NET			0		0	0	1.00				
											NET ACCT. ADJ. FOR 11/20	0	0.00	0.00
											ORG ACCT. BAL AS OF 11/20	6320 CR	0.00	11.20 CR
											REV ACCT. TOTAL	6320	0.00	11.20
10/20	ADJ	6147980	ENG ORG	09/30/20	08/31/20	30	ACT	4320	0	4,320	1.00	4320 CR		
		6147980	ENG REV	09/30/20	08/31/20	30	ACT	4320	0	4,320	1.00	4320		
		6147980	ENG NET			0		0	0	1.00				
		6147980	DMD ORG	09/30/20	08/31/20	30	ACT	38.4	0	38.4	1.00		38.40 CR	
		6147980	DMD REV	09/30/20	08/31/20	30	ACT	11.2	0	11.2	1.00		11.20	
		6147980	DMD NET			0		0	0	1.00			27.20 CR	

DEV / 060 6100096200