Supporting SAS in the Workplace: A Corporate SAS User Community

Barbara B. Okerson, Anthem Inc.
Jennifer Harney, SAS Institute Inc.

ABSTRACT

Many SAS users are not aware of an abundance of resources available to them from a variety of sources. The available resources range from those internal to their own organization to SAS itself. In order for these resources to be utilized they need to be available to the users in an accessible way. This paper shows how one large company with SAS users at many locations throughout the United States has built a highly successful collaborative community for SAS support. Modeled in the style of sasCommunity.org, the online corporate SAS community includes discussion forums, surveys, interactive training, places to upload code, tips, techniques, and links to documentation and other relevant resources that help users get their jobs done more effective and efficiently.

INTRODUCTION

Anthem health plan companies deliver quality products and services that give their members access to the care they need. With nearly 71 million people served by its affiliated companies including more than 38 million enrolled in its family of health plans, Anthem is one of the nation’s leading health benefits companies. The company was formed when WellPoint Health Networks Inc. and Anthem Inc. merged in 2004. The parent company originally assumed the WellPoint, Inc. name but in December 2014, WellPoint, Inc. changed its corporate name to Anthem, Inc.

Anthem’s over 50,000 employees, distributed throughout the United States, include a community of over 1,000 SAS users, also widely distributed geographically. Since many Anthem employees work from home, including many SAS users, this adds another dimension to this geographic distribution. Figure 1 illustrates this distribution.

Figure 1. SAS User Geographic Distribution

Currently Anthem’s SAS users run SAS in a variety of environments including PC SAS, but most users are being migrated to SAS Grid environment with SAS 9.4 and Enterprise Guide 7.1. In this grid environment, SAS jobs can be distributed across a grid of computers enabling workload balancing, accelerated processing, and job scheduling.

SAS use at Anthem includes such varied tasks as data quality analysis, member risk stratification, client reporting, corporate financial analysis, and research and development. To support this broad spectrum of users and uses, Anthem has partnered with SAS to form both a SAS In-House Users Group and a private Anthem SAS Community of Practice. These forums assist in making connections for users. SAS users can find answers, share technical knowledge and success stories, and collaborate on solutions that use SAS software within the greater context of business intelligence.
PARTNERSHIP WITH SAS

To ensure customer satisfaction, SAS maintains a partnership with their customers that extends beyond the sale and maintenance of its software offerings. For Anthem, especially valuable segments of this partnership include:

1. SAS User Groups
2. Anthem In House Users Group (with SAS Cafés)
3. Anthem Community site
4. Training

1. SAS USER GROUPS

User groups exist at all levels within the SAS community. Each has its own specific benefits but all facilitate sharing of ideas and solutions between users and have something to offer from beginners to advanced SAS users. SAS provides benefits to each level.

- **SAS Global Forum International (SGF)** – SAS Global Forum brings together users from over 40 countries to share ideas and solutions at an annual multi-day conference, generally in the U.S. Users can compare notes and network with others in their industry to see firsthand how others are solving complex problems similar to those in their workplace, by using SAS. SAS also provides access to technical experts that can assist with custom solutions. [http://www.sas.com/en_us/events/sas-global-forum/sas-global-forum-2016.html](http://www.sas.com/en_us/events/sas-global-forum/sas-global-forum-2016.html)

- **Regional** – The regional user group and conference is similar to the international but is on a smaller scale and closer to home. Instead of thousands of attendees, several hundred SAS users are on hand to share ideas in smaller sessions. [http://support.sas.com/usergroups/regional-events.html](http://support.sas.com/usergroups/regional-events.html)

- **Local** – Local user groups bring together SAS users in a specific geographic area to share SAS ideas. Meetings are usually single of half day. [http://support.sas.com/sasusersupport/usergroups/search?sort=LUG](http://support.sas.com/sasusersupport/usergroups/search?sort=LUG)

- **In-House** – SAS In-House user groups bring together users from a single organization regardless of geographic location and allow for discussion about actual data usage within that organization. **The focus of this paper is on an In-House group.**

- **Special Interest** – This group is around users with a particular interest. Examples of this include Data Management SAS Users Group, Pharmaceutical Users of SAS software or SAS retail Users Group, to name a few. [http://support.sas.com/sasusersupport/usergroups/search?sort=SUG](http://support.sas.com/sasuserssupport/usergroups/search?sort=SUG)

![Figure 2. SAS User Group Programs.](image-url)
2. ANTHEM IN-HOUSE USERS GROUP (WITH SAS CAFÉS)

An in-house user group is an excellent way to increase value from shared corporate applications like the SAS System. In addition to networking with each other, users are exposed to new coding and analysis techniques while enhancing understanding of SAS software and services. User groups like the Anthem In-House SAS User Group that have registered with SAS receive many additional benefits including: speakers, book discounts, and user surveys.

At Anthem, we decided to create an In-House Users group. We did this because it’s a wonderful way to honor the voice of those using SAS software. At Anthem this group allows us to foster connections and collaboration with other SAS professionals, increase our understanding of SAS products and capabilities, stay up to date on the newest offerings as well as the latest SAS techniques and enhance our leadership and presentation skills. When we engage in an In House Users Group meeting (café) we immediately know all of the other members of this group have more than one thing in common, we work for Anthem and use SAS!

Benefits of an In-House Users Group

- Excellent way to energize and educate yourself about the power of SAS and see SAS in action.
- Learn ways to optimize SAS and gain more value.
- Find out about successes achieved by your organization’s SAS users.
- Share your feedback and experiences with your SAS support team.
- Network with other SAS users and IT support personnel within your organization.
- Learn about resources available to you.
- Learn about and be involved in your company’s road map as it pertains to SAS.
- Enhance your career. Presentations can open doors professionally and are a solid addition to any résumé.

In-House Users Group Leadership

The Anthem IHUG (AIHUG) consists of a Steering Committee which drives the leadership and direction of the group. The Steering Committee not only includes a mix of SAS users from different parts of the company: Anthem IT, Actuarial, Data Management, Claims Processing and Client reporting, but the group consists of a variety of Anthem subsidiaries as well. This ensures a good mix of business and IT from all parts of Anthem proper. Steering Committee members’ bios and contact information are posted on the Anthem SAS Community site so that users can bring ideas directly to the committee. We meet virtually once/month for an hour. These virtual meetings occur at the same time every month so the steering committee members can plan around them. During these meetings we discuss:

- Past/present and future monthly café sessions – A café session is an hour long virtual WebEx meeting where either a resource from SAS or a resource from Anthem speaks about their use of SAS, a specific technology, a SAS roadmap or any other SAS related topic. It is collaboration between SAS and Anthem. At Anthem the general rule is 50/50 meaning SAS will resource about half of the monthly sessions while Anthem resources the remaining half. (See ANTHEM IHUG TIMELINE below) Attendees get a lot out of the sessions when their own users speak about how or what they are doing with SAS. They are able to show actual code and they speak “the same language” as the attendees. These tend to be the café’s that make the most impact on the user community. All café sessions are recorded and posted for playback to the Community site (shown below).

- Training opportunities/needs
- On-site or virtual events taking place either specifically for Anthem or SAS users in general (Hands-on events, Regional conferences, etc.)
- User survey results
**ANTHEM IHUG TIMELINE:**

- **December 2011** – Inaugural In House Users Group virtual meeting. We discussed the frequency of meetings and leadership.

- **January 2012** – Continued with a monthly café and determined a recurring day/time.

- **March 2012** – In House Users Group Steering Committee was determined.

- **2012 On-going** – worked on delivering topics to the group that would be timely and meaningful. You can see from the below schedule, it was mostly SAS resourcing the café’s. Anthem was still in the infancy stage of the group. The goal was to move towards a model where SAS and Anthem shared the content for the café’s. This model has proven to be the most meaningful and impactful to the user community.

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**WellPoint In House SAS Users Group**

**Please join us for the Inaugural WellPoint SAS Users Group Meeting**

**December 14th, 2011**

**2:00-3:30**

**WebEx**

**TOPICS INCLUDE:**

- Getting Started with our In House SAS Users Group
- Leadership of the group
- Frequency of meetings
- Future topics
- Guest Speaker from SAS: How to navigate your way through the SAS website to be more efficient in your searches. Presented by Roy Wilson of SAS Technical Support

To register, please contact Jennifer Harey at [Jennifer.Harey@sas.com](mailto:Jennifer.Harey@sas.com).

WebEx information on following page.

From your SAS and WellPoint Support Team.

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**Figure 3. In-House User Group Kick-Off.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-Jan-12</td>
<td>How to create and deliver your SAS content efficiently...Make use of macros (SAS- Michael Walters)</td>
</tr>
<tr>
<td>13-Feb-12</td>
<td>PROC SQL vs. DATA Step. Similarities, differences and when to use each (SAS- Ron Coleman)</td>
</tr>
<tr>
<td>21-Mar-12</td>
<td>In DB Processing (SAS- Ron Coleman)</td>
</tr>
<tr>
<td>18-April-12</td>
<td>Add-In for Microsoft Office (SAS)</td>
</tr>
<tr>
<td>10-May-12</td>
<td>Enterprise Guide for the SAS Programmer – Advanced (SAS)</td>
</tr>
<tr>
<td>20-Jun-12</td>
<td>Self-service reporting using Web Report Studio (SAS)</td>
</tr>
<tr>
<td>11-July-12</td>
<td>Richmond SAS Day</td>
</tr>
<tr>
<td>15-Aug-12</td>
<td>Introduction to the Macro Family (SAS)</td>
</tr>
<tr>
<td>20-Sept-12</td>
<td>What I learned in my SAS Querying &amp; Reporting Class (Sadie-WLP)</td>
</tr>
<tr>
<td>17-Oct-12</td>
<td>Intro. To the Data Step Hash Object/Hash Tables and Lookups (SAS)</td>
</tr>
<tr>
<td>*14-Nov-12</td>
<td>Top 10 Ways to optimize your SAS Code (SAS)</td>
</tr>
<tr>
<td>*</td>
<td>Change of date due to Thanksgiving</td>
</tr>
<tr>
<td>19-Dec-12</td>
<td>Debugging SAS Code (SAS)</td>
</tr>
<tr>
<td>16-Jan-13</td>
<td>Intro to OBS (SAS)</td>
</tr>
<tr>
<td>20-Feb-13</td>
<td>Writing to external locations. How does EG work like Access (SAS)</td>
</tr>
</tbody>
</table>
- **2013 On-going** - The following was the schedule for the 2013 café’s. Anthem was becoming a more sophisticated group with more SAS café experience.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Meeting Kick Off Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-Mar-13</td>
<td>Proc Report (Barbara Okerson - WLP)</td>
<td></td>
</tr>
<tr>
<td>17-Apr-13</td>
<td>Tips and Tricks to Finding SAS Information (Renee Harper - SAS)</td>
<td></td>
</tr>
<tr>
<td>15-May-13</td>
<td>Proc Report in WellPoint Environment (Barbara Okerson - WLP)</td>
<td></td>
</tr>
<tr>
<td>19-June-13</td>
<td>Introduction to SAS Enterprise Guide (Mira Shapiro)</td>
<td></td>
</tr>
<tr>
<td>17-July-13</td>
<td>What I’ve learned from SGF (Barbara Okerson - WLP)</td>
<td></td>
</tr>
<tr>
<td>21-Aug-13</td>
<td>Creating and Deploying SAS Stored Processes (Michael Walters - SAS and WellPoint)</td>
<td></td>
</tr>
<tr>
<td>18-Sept-13</td>
<td>Simple Statistical Analysis in Enterprise Guide (T. Winand - SAS)</td>
<td></td>
</tr>
<tr>
<td>16-Oct-13</td>
<td>Let Oil and Gas Talk To You: Predicting Production Performance (Keith Holdaway - SAS)</td>
<td></td>
</tr>
<tr>
<td>20-Nov-13</td>
<td>SAS In Database Capabilities (Bill Mackrell - SAS)</td>
<td></td>
</tr>
<tr>
<td>18-Dec-13</td>
<td>Best Practices for SAS EG Project management (Kate Schwartz - SAS and WellPoint)</td>
<td></td>
</tr>
</tbody>
</table>

- **2014 On-Going** - Finally, with the growth of the Anthem user community, the current café model in place is a shared model where SAS and Anthem are teaming up and delivering content together. (See highlights). We also added a Meeting kick off lead. This person is a member of the steering committee and takes a turn kicking off each monthly café.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Meeting Kick Off Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-Jan-14</td>
<td>Enterprise Guide for the SAS Programmer – Chris Hemedinger (SAS)</td>
<td>Jennifer Harney</td>
</tr>
<tr>
<td>19-Feb-14</td>
<td>Let SAS Do The Coding For You – Robert Williams (WellPoint)</td>
<td>Jennifer Harney</td>
</tr>
<tr>
<td>16-Apr-14</td>
<td>Put the Cart Behind the Horse – Pulling SAS Content into MS Excel using AMO – Joe Urbil (WellPoint)</td>
<td>Joe Urbil</td>
</tr>
<tr>
<td>21-May-14</td>
<td>PC2 (Enhanced Personal Health Care) at WellPoint – Ryan Leonard (WellPoint)</td>
<td>Joe Urbil</td>
</tr>
<tr>
<td>18-June-14</td>
<td>Blue Precision – Andrew Patrick (WellPoint)</td>
<td>Ram Kapu</td>
</tr>
<tr>
<td>9-July-14*</td>
<td>Grid Overview – Dwight Fowler (SAS)</td>
<td>Jenn Harney</td>
</tr>
<tr>
<td>*Date change</td>
<td>Time Series Mapping with SAS in the Health Insurance Industry – Barbara Okerson (WellPoint)</td>
<td>Barbara Okerson</td>
</tr>
<tr>
<td>17-Sept-14</td>
<td>CIB project – Joe Urbil (WellPoint)</td>
<td>Joe Urbil</td>
</tr>
<tr>
<td>15-Oct-14</td>
<td>Scheduling in SAS</td>
<td>Monika Singhal</td>
</tr>
<tr>
<td>19-Nov-14</td>
<td>Survival model using SAS Enterprise Miner - Praveen Saxena (WellPoint)</td>
<td>Srin Ambati</td>
</tr>
<tr>
<td>17-Dec-14</td>
<td>SAS and Hadoop: Elena Edelstein (WellPoint)</td>
<td>Elena Edelstein</td>
</tr>
</tbody>
</table>

- **2015 and beyond** - The Anthem SAS community is now a very strong community of users. We have close to 300+ attendees in the monthly café sessions. As we on-board users to SAS, it’s a seamless way for new users to instantly become part of the SAS community at Anthem. The SAS café’s now include very specific topics which relate to Anthem’s business issues. This forum allows us to be extremely specific and granular with our topic selections. With the new shared model we continuously get feedback like the following:
  
  o Mark’s code just solved a problem I’ve been trying to debug for months. Thanks again.
  o Thank you for hosting the SAS café every month. I learn something new each time, and this group/website has been very helpful.
  o It’s interesting to hear all the stuff that is going on within Anthem. This forum helps me to stay in the loop.
Having SAS and Anthem present together is a great teaching method. SAS sets the stage and then Anthem presents about specifics in the Anthem environment. Very useful. Very Helpful. Thank You.

3. **ANTHEM COMMUNITY SITE**

The SAS Community Site at Anthem is a private site accessible only to Anthem SAS Users. The site was created with a two-fold purpose:

- Create a stronger sense of SAS community within Anthem
- Provide an area where Anthem users can go to find things SAS related in an effort to make them more effective and efficient.

The site includes the following:

- **Announcements**

![Announcements screenshot](image1)

- **Discussion board**

![Discussion board screenshot](image2)
**Documents**

- SAS Conference Dates and other links
  - SAS Global Forum 2015 (Dallas, TX | April 20-29)
  - PharmaSUG 2015 (Orlando, FL | May 17-20)
  - JWA 2015 (Washington, DC | June 14-18)
  - VIDS 2015 (San Diego, CA | Sept. 8-11)
  - SESUG 2015 (Savannah, GA | Sept. 27-29)
  - WINSUG 2015 (Omaha, NE | Oct. 15-20)
  - SAS Anthology 2015 (Las Vegas, NV | Nov. 9-13)

**GRID at Anthem**
- Grid Computing in SAS 9.4
- What’s new in SAS Grid Manager in 9.4
- Grid SAS Talk (high-level SAS talk on Grid and the flexibility around it...more for an intro to what is Grid)
- Grid Site (Grid site on support.sas.com where you will see samples and notes relating to Grid. Also by using the tabs you can run training, etc.)
- White paper on writing parallel SAS code
- White Paper on the code analyzer, making your code GRID ready
- White Paper that focuses on Enterprise Guide with GRID
- Grid Training recording that Rania Kapa from Anthem conducted
  - Grid Security from Rania Kapa
  - Grid Basics from Rania Kapa

**Private 2015 SAS Café’s for the Anthem User Community**

**Monthly SAS Café’s for the Anthem In House**

**SAS Café recordings and materials**

<table>
<thead>
<tr>
<th>Private 2015 SAS Café’s for the Anthem User Community</th>
<th>SAS Café’s for the Anthem In House Users Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learn a little more about the SAS technology at SAS Café’s for Anthem! Join SAS every 3rd Wednesday of the month for a One Hour Live Webinar session at 2:00 EST, exclusive to Anthem. The objective is to provide an overview and exposure to the SAS software available to Anthem Employees as well as network and meet from other Anthem SAS users.</td>
<td></td>
</tr>
<tr>
<td>Every 3rd Wednesday of Each Month at 2 O’clock pm EST.</td>
<td></td>
</tr>
<tr>
<td>15-Jul-15</td>
<td>SAS Name: Day and the Basics – Cynthia Johnson (SAS) / Mark H (Anthem)</td>
</tr>
<tr>
<td>19-Aug-15</td>
<td>Barbara’s materials</td>
</tr>
<tr>
<td>22-Oct-15</td>
<td>SAS to PDF: New HIM/Encounter Reporting Package for Clients (Anthem)</td>
</tr>
</tbody>
</table>

**TRAINING**

SAS and Anthem partner together to ensure the users receive the appropriate training and that the content is timely. By being very involved in the user community and knowing what the users are doing with SAS, it allows not only SAS but the leadership at Anthem to stay ahead of the curve in regards to training needs. Training is a vital component to overall success and having a partnership that allows SAS a view into the Anthem technology roadmap allows everyone to anticipate the training needs sooner rather than later. This partnership agreement allows the SAS Users at Anthem to take advantage of many e-learning courses available from SAS.
CONCLUSION

SAS Users at Anthem find the SAS In-House Users Group and the Anthem Community Site as valuable support tools towards maintaining a level of excellence in data analysis, client reporting and research. Through these vehicles of support, SAS users within the organization are given opportunities to participate, share and learn regardless of their level of expertise, SAS platform or physical location.

REFERENCES

SAS Institute Inc. https://support.sas.com/usergroups/

ACKNOWLEDGMENTS

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CONTACT INFORMATION

Your comments and questions are valued and encouraged. Contact the authors at:

   Barbara B. Okerson, Ph.D., CPHQ, FAHM
   Health Information Manager
   Health Care Analytics, Anthem, Inc.
   barbara.okerson@anthem.com

   Jennifer Harney
   Senior Customer Loyalty Manager, SAS
   Jennifer.Harney@sas.com
   (919) 531-0965

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