Ask a Question   Write a Blog Post   Login

Martin Fischer

May 1, 2018 | 3 minute read

Where to find learning material about BOPF?

💬 20   👍 30   👁 22,029

Follow

👍 Like

🔊 RSS Feed

BOPF (Business Object Processing Framework) is now GA ("general available") since about five years and in my opinion every ABAP developer should already have heard about it. Why? Because using a common development framework makes your development faster, more maintainable and it's easier to switch project teams for developers if all use the same framework. The second reason why BOPF is important: Because it is part of the Fiori Programming Model which SAP introduced for S/4 HANA.

With S/4 HANA SAP finally decided to work on common technology and framework stack which will be used for development and which is also recommended for custom development. BOPF is part of this stack and is THE framework for the implementation of transactional applications.

So there are good reasons to start to learn BOPF. But how?

I want to provide some links to some resources I know. But in order to find out where you should start, I want to give a short overview about the evolution of BOPF.

BOPF was actually build during the Business By Design development phase and later ported to the Business Suite Foundation Layer. SAP used it already e.g. for Transportation Management and parts of SRM before it was general available. Back then a dynpro based development tooling was used, the so called configuration UI, which can be found in transaction BO**B**F (the second "B" is no typo!).

As the recommended IDE for ABAP is now ADT (ABAP in Eclipse), there is also a tooling with in Eclipse available.

With NetWeaver 7.5 BOPF was moved to the NetWeaver ABAP Application Server and since then it is available on the NetWeaver stack.

As the Fiori Programming Model evolved over time, there were also changes in how you model your BOPF applications: first you did your BOPF modelling in the Dynpro configuration UI, later in the ADT tooling and nowadays you model it already with in your CDS views. So therefore it's a bit hard to find the proper learning material.

But after all that confusing information, there is also good news! The concepts behind BOPF, the artifacts and the way how you program didn't change much. Till now mainly the way how you model changed.

But, as it was said at the DSAG Technologietage (Technology Days) this year, the way how you program will also change. But there is another good news: the concepts will stay the same, the way how you program will just be easier for the developer as Business Objects will become a first class citizen of the ABAP language and the API will probably move to the ABAP language.

So **LET** me start with providing here some useful links and resources:

To start with BOPF and the concepts behind, the SAP Community pages are a good starting point:

The first resources are based on the SAP GUI configuration UI:

James Wood wrote a series of blog posts:

https://blogs.sap.com/2013/01/04/navigating-the-bopf-part-1-getting-started/

https://blogs.sap.com/2013/01/04/navigating-the-bopf-part-2-business-object-overview/

https://blogs.sap.com/2013/01/16/navigating-the-bopf-part-3-working-with-the-bopf-api/

https://blogs.sap.com/2013/01/29/navigating-the-bopf-part-4-advanced-bopf-api-features/

https://blogs.sap.com/2013/02/22/navigating-the-bopf-part-5-enhancement-techniques/

https://blogs.sap.com/2013/03/04/navigating-the-bopf-part-6-testing-ui-integration/

The book "ABAP to the future" written by SAP Mentor Paul Hardy contains also a chapter about BOPF.

Oliver Jägle wrote also a series of blog posts which can be regarded as a technical deep dive:

https://blogs.sap.com/2015/07/18/abap-to-the-future-my-version-of-the-bopf-chapters/

https://blogs.sap.com/2015/09/22/abap-to-the-future-my-version-of-the-bopf-chapters-part-1-addendum-other-associations/

https://blogs.sap.com/2015/07/20/abap-to-the-future-my-version-of-the-bopf-chapters-part-2/

https://blogs.sap.com/2015/07/21/abap-to-the-future-my-version-of-the-bopf-chapters-part-3/

https://blogs.sap.com/2015/07/27/abap-to-the-future-my-version-of-the-bopf-chapters-part-4-determinations-and-general-architectural-aspects/

https://blogs.sap.com/2015/08/04/abap-to-the-future-my-version-of-the-bopf-chapters-part-5-properties/

https://blogs.sap.com/2015/08/07/abap-to-the-future-my-version-of-the-bopf-chapters-part-6-validations/

https://blogs.sap.com/2015/09/24/abap-to-the-future-my-version-of-the-bopf-chapters-part-7-actions/

https://blogs.sap.com/2015/09/26/abap-to-the-future-my-version-of-the-bopf-chapters-part-8-a-modification-roundtrip/

The SAP Transportation Management Team publishes a podcast. There are also two episodes about BOPF:

https://blogs.sap.com/2013/03/21/tmp-the-tm-podcast/

The two BOPF episodes can also be found on YouTube: https://www.youtube.com/watch?v=LjfdRB57KZk and https://www.youtube.com/watch?v=Sx44Vc15H5Q

Since NetWeaver 7.50 onwards BOPF is also a topic in the SAP Help Documentation!

There are also to new German books which cover the topic:

BOPF – Business-Objekte mit ABAP entwickeln I didn't read the book. But after checking the table of contents it seems to cover all the three different approaches how you can model your BOPF objects.

The second one is about CDS Views and covers the CDS BOPF modelling approach within the chapter about transactional apps:

Core Data Services für ABAP: CDS-Views und Datenmodelle für SAP S/HANA entwickeln

If you want to find all the blog posts about BOPF in the SAP Community, you can subscribe to the RSS feed of the related tag: https://blogs.sap.com/tag/bopf

If you want to get some hands-on experience, check the SAP Developers Event page for SAP CodeJam about "ABAP for SAP HANA E2E". At a CodeJam you can get your hands dirty with coding and you have also the chance to ask your questions to the experts from SAP.

And hopefully, there will be soon an open.sap.com course on the new S/4 HANA programming model. I would really appreciate that!

This list is for sure not complete. So if you have some additional resources just post a comment!

Update:

I also checked the offering of SAP Training. There used to be a two days training focusing on BOPF. It seems this is not offered anymore. As this was focusing on the SAP GUI configuration UI approach, this is understandable. But I couldn't find any new course mentioning BOPF explicitly. I guess, it might be part of S4D430, but I'm not sure and it will not cover much as it is only a three days course focusing on CDS.

Alert Moderator

Assigned Tags

SAP Mentors

ABAP Development

SAP Fiori

SAP S/4HANA

adt

bopf

cds

Similar Blog Posts

I can see ABAP Moon Rising – Part Five of Eight

By Paul Hardy   Dec 14, 2021

The Rappy Horror abapGiture Show - Part Three

By Paul Hardy   Mar 12, 2019

SAP TechEd Barcelona 2018

By Paul Hardy   Oct 30, 2018

Related Questions   ⌃

Watch ABAPers at SAP TechEd Getting Lemonade!

By Jason Lax   Sep 19, 2017

SAP Mentor not a mentor for me

By Otto Gold   Feb 11, 2010

Teaching girls - and their teachers - technology

By Former Member   Jul 29, 2014

---

20 Comments

You must be **Logged on** to comment or reply to a post.

Clemens Link
May 1, 2018 at 8:49 pm

Hi Martin,

Happy to hear that you would appreciate to see an openSAP course on the new SAP S/4HANA programming model. To be honest, this is on my list for quite some time, but so far I couldn't convince the experts to take the effort and start course production. Let me go back to them and check again.

Cheers, Clemens

Like 7 | Share

Martin Fischer | Blog Post Author

May 1, 2018 at 8:52 pm

As there is still not much learning material out there and the evolution of BOPF leads to confusion, I would really appreciate that and I'm sure, not only I do 😉

Like 1 | Share

VAMSIKRISHNA SRIRANGAM

December 7, 2019 at 9:01 pm

Hi Martin,

Thanks for the blog , i am looking for SAP Book on BOPF(because till now i only followed SAP Training Guides i believe they cover everything) but for BOPF i only found TM Techincal Guide 9.X as the latest version, is there any standard SAP training available on BOPF ?

Like 0 | Share

Guus Werinussa

May 3, 2018 at 7:19 am

That would be great if you could manage to squeeze in a BOPF course.

Like 1 | Share

Peter Inotai

May 3, 2018 at 9:35 am

An openSAP course on the new SAP S/4HANA programming model would be very great. I hope you manage to convince the right people. I'm looking forward to it. 🙂

Peter

Like 3 | Share

Gurpreet Jaspal
October 3, 2019 at 12:09 am

Hi Clemens,

Want to check if there is any further update on the BOPF course?

Regards

Gurpreet

Like 0 | Share

Clemens Link
October 3, 2019 at 8:41 am

No yet, Gurpreet. We only could launched an openSAP MOOC on CAP so far: Building Applications with SAP Cloud Application Programming Model

Kind regards, Clemens

Like 0 | Share

Dominik Ritter
May 2, 2018 at 11:12 am

Thank you for that compilation. These are good resources to start with.

Like 0 | Share

Rashid Javed
May 2, 2018 at 11:56 am

Thanks Martin for the wonderful blog.

Your blog is a good source of BOPF related information and links. Already bookmarked it 🙂

Like 0 | Share

Guus Werinussa
May 3, 2018 at 7:15 am

Thanks for this! Saves me a lot of time googling.

Like 0 | Share

Guus Werinussa
May 3, 2018 at 7:18 am

And regarding S4D430: i did that one and sadly there is not much BOPF in there.

Like 0 | Share

Kenneth Moore
May 3, 2018 at 5:47 pm

I heard the same about Web Dynpro for Java. Then Web Dynpro for ABAP. Now BOPF? My little taste of this framework was distasteful being overly complicated, cryptic and restrictive. Being five years into this technology, I'd say the next big thing is just on the horizon. Hopefully.

Like 0 | Share

Mark Wagener
May 8, 2018 at 9:58 am

Thomas Fiedler what would be your comment on this blog? Furthermore, what do you think about an openSAP course for BOPF?

Cheers,

Mark

Like 0 | Share

Thomas Fiedler
May 9, 2018 at 10:10 am

Hi Mark,

we think about providing an Open SAP course about new the new Restful ABAP Programming Model that you have seen at the DSAG ABAP Dev Days. But a pure BOPF course is not planned.

Regards,

Thomas.

Like 2 | Share

Mark Wagener
May 8, 2018 at 10:01 am

Martin Fischer

I found this blog helpful: Find your way to the BOPF

Like 2 | Share

Julie Plummer
May 10, 2018 at 9:37 am

Oh! I was just going to post that one. Me too - it really helped. Not least, because it's ONE blog, not 7. It let me get a feel for BOPF very quickly. I can now deep drive with confidence (!)

Like 1 | Share

Alban Leong
May 15, 2018 at 3:47 pm

Thanks for this comprehensive list!

Like 0 | Share

Sagar Prusty
September 9, 2019 at 12:47 pm

For hands On purpose
Please find the below links

https://archive.sap.com/documents/docs/DOC-45425

Please check guys... 🙂

Like 1 | Share

Mohit Sharma
June 4, 2021 at 11:17 am

Thank you Sagar Prusty for sharing this!

Like 0 | Share

Mohit Sharma
June 4, 2021 at 11:18 am

Thank you Martin Fischer for compiling the content on BOPF.

Like 0 | Share

Find us on

Privacy	Terms of Use
Legal Disclosure	Copyright
Trademark	Cookie Preferences
Newsletter	Support