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[SOT108]

## Setting up a central ATC-system – the long, long winding road to get there

Bärbel Winkler

May 30th, 2020

18:00 - 18:40 UTC

This presentation recaps the journey from reading blog posts about a central ABAP Test Cockpit (ATC) to actually getting such a system up and running.



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# KÄRCHER

makes a difference



## **IMPLEMENTING A CENTRAL ABAP TEST COCKPIT (ATC) SYSTEM AT ALFRED KÄRCHER SE & CO. KG**

# AGENDA

**1** **ALFRED KÄRCHER SE & Co. KG**  
A brief overview

**2** **FROM START TO FINISH**  
Our path to a central ATC-System

**3** **LESSONS LEARNED**  
& Next steps

**4** **READING UP ON THINGS**

# ONE BIG FAMILY.

13,500 employees, 73 countries, 127 companies





# HOME & GARDEN.

Devices for retail users.





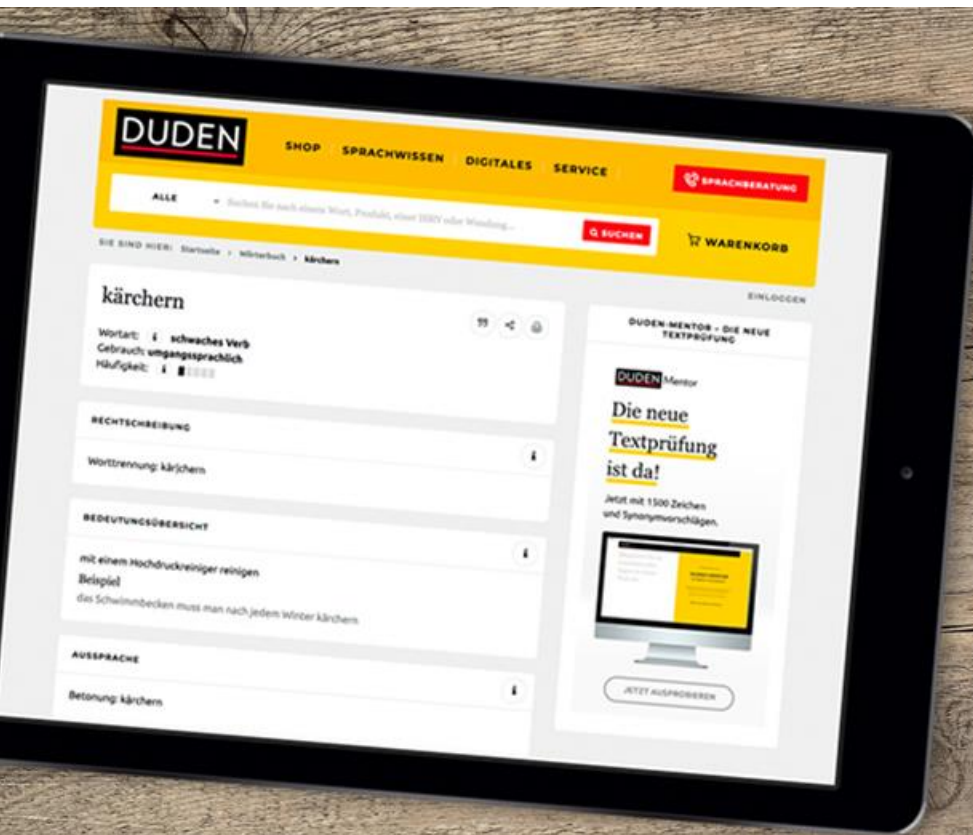
**THANKS TO KÄRCHER, EVEN  
LARGE TASKS CAN BE FUN  
AND TAKE LESS EFFORT.**





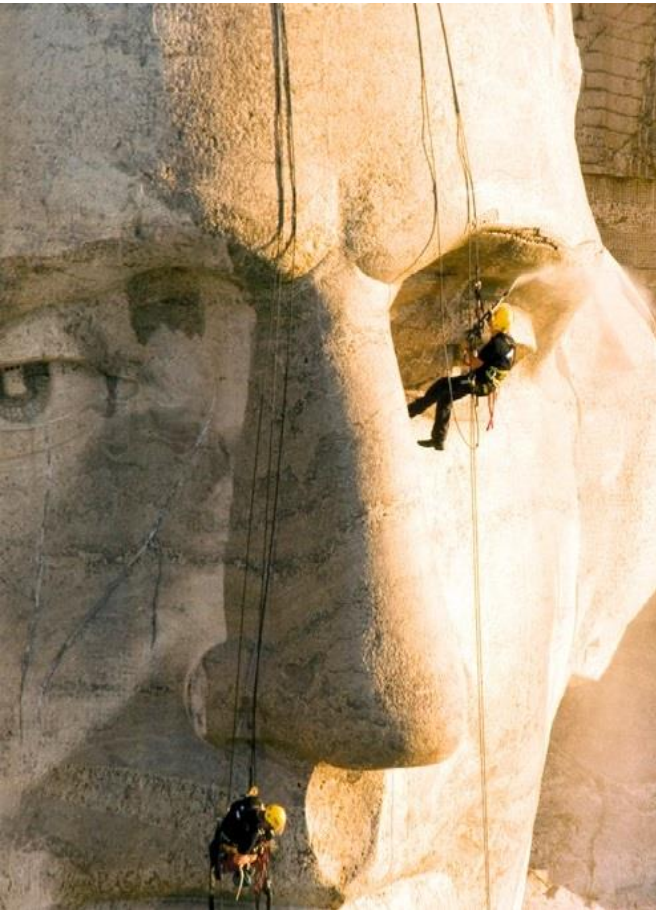
# “KÄRCHERN” IS IN THE DICTIONARY.

When a brand is in the “Duden” (German dictionary), this is an impressive achievement indeed



# PRESERVING CULTURAL MONUMENTS.

Over 40 years. More than 140 campaigns. One legacy.

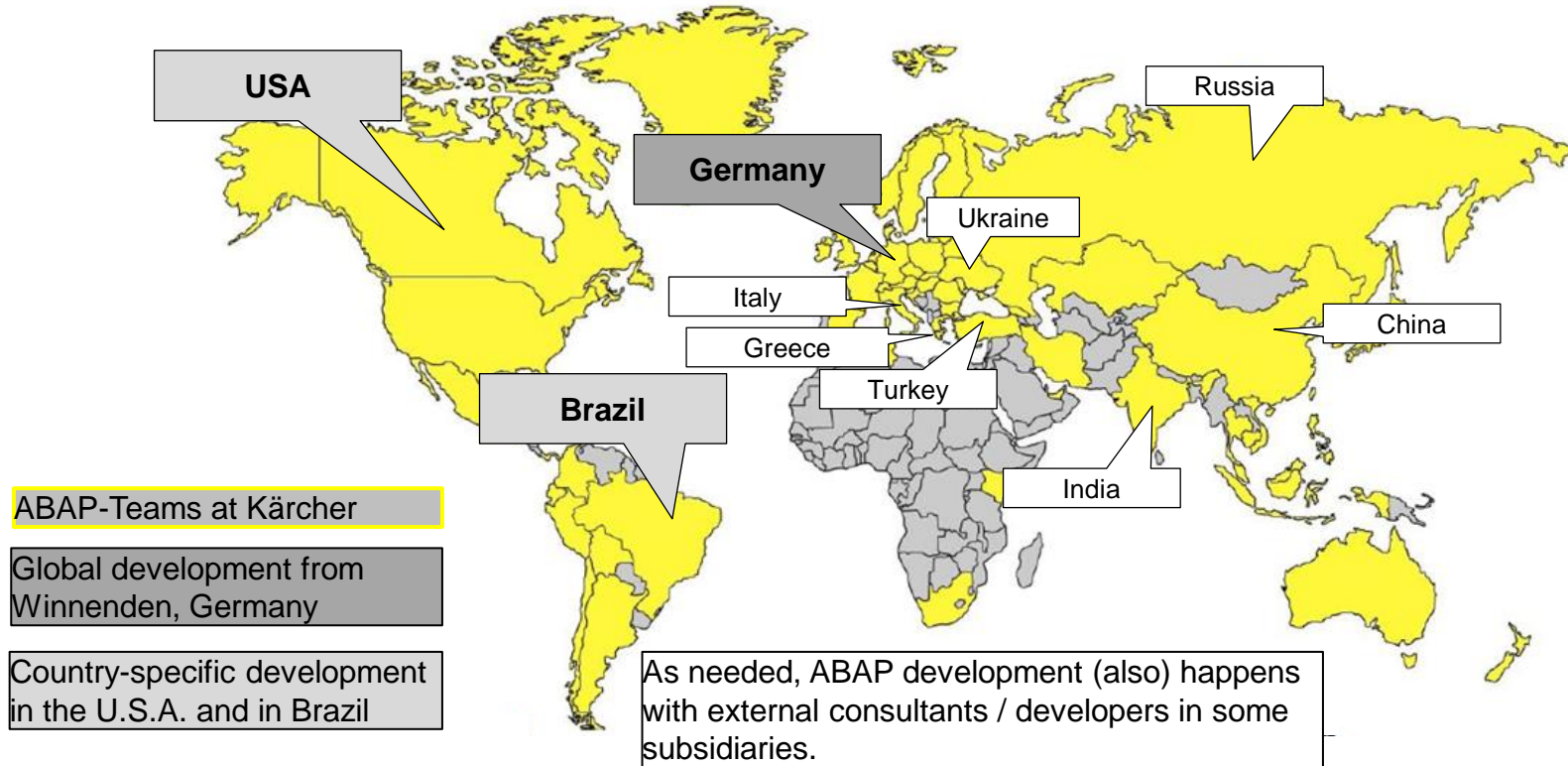




**AS A WORLD LEADER WHEN IT COMES TO CLEANING ...**

... it shouldn't come as a big surprise that  
Kärcher is also interested in clean ABAP-code!

# GLOBAL ABAP DEVELOPMENT (AS OF MAY 2020)





# DEVELOPMENT GUIDELINES ARE AVAILABLE ONLINE

## 01 - Development Guidelines (Online version)

Created by Winkler, Baerbel, last modified on Jan 23, 2020

**KÄRCHER**

This online-version replaces the Kärcher development guidelines Version 2.2 of March 12, 2012. They are binding for all ABAP developers working for Kärcher within our SAP systems.

### Table of Content

#### 0. Introduction

##### 1. General Aspects

- 1.1 Utilising the Code Inspector (SCI) and the ABAP Test Cockpit (ATC)
- 1.2 ABAP Testcockpit (ATC) - FAQs
- 1.3 Development Guidelines - Transport title checks

##### 2. Organizational Information

##### 3. Documentation

##### 4. Performance

- 4.1 Preparing for Business Suite on HANA DB
- 4.2 HANA - Code transformation Examples

##### 5. Coding in general

- Coding Template English

##### 6. Maintenance of DDIC elements

### Latest News

#### January 23, 2020

**Reminder: Please remember (or have your calendar remind you!) to make use of the [Transport Check Tool](#) available via transaction [ZVW0000000](#) on transport days! The result is usually available by 12:30 German time at the latest and leaves enough time to correct the import queues in case of issues with either forgotten or preliminarily released transports. Do not rely on somebody else checking the result and alerting you of issues, but proactively do it yourself. Thanks!**

### Transport days 2020 - updated January 9, 2020



Not yet shown, but there'll be no transports on April 8 and instead of Sept 9 it will already happen on Sept 8.

# DEVELOPMENT GUIDELINES ARE ALSO AVAILABLE VIA SE80

The image displays three screenshots of the SAP SE80 interface. The main screenshot shows the '01 - Development Guidelines' page, which is part of the 'KÄRCHER' SmartBox. The page title is '01 - Development Guidelines' and it was created by Winkler, Bärbel, last modified on Nov 08, 2018. The page content includes a 'Table of Content' with sections like '0. Introduction', '1. General Aspects', '2. Organizational Information', '3. Documentation', '4. Performance', and '5. Coding in general'. The left sidebar shows the 'Object Navigator' with the 'Repository Browser' selected. The right sidebar shows the 'User-Specific Settings' dialog box, which has a checkbox labeled 'Display Workbench News' that is currently unchecked. Below the checkbox, there is a section titled 'ABAP Development Guidelines' with instructions on how to access the guidelines via the SmartBox or the Repository Browser. The bottom right corner of the screenshot shows the 'KÄRCHER' logo.

01 - Development Guidelines

Created by Winkler, Bärbel, last modified on Nov 08, 2018

**KÄRCHER**

This online-version replaces the KÄRCHER development guidelines, which are binding for all ABAP developers.

**Table of Content**

- 0. Introduction
- 1. General Aspects
  - 1.1 Utilising the Code Inspector (SCI) and the ABAP Test Cockpit (ATC)
  - 1.2 ABAP Testcockpit (ATC) - FAQs
  - 1.3 Development Guidelines - Transport title checks
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- 3. Documentation
- 4. Performance
  - 4.1 Preparing for Business Suite on HANA DB
  - 4.2 HANA - Code transformation Examples
- 5. Coding in general

**ABAP Development Guidelines**

To see the ABAP development guidelines in this area, please go to Utilities --> Settings and uncheck the box "Display Workbench News". After accessing the transaction again, you'll see the guidelines once you log on.

You can also access the [Development Guidelines in the Smartbox](#) via your browser.

(Note: if you don't have your own user to access Smartbox, please use user [allap](#) or [gustav](#).)

Please contact the ABAP-team in Winnenden in case of questions.

**ABAP Entwicklungsrichtlinien**

Um hier die ABAP Entwicklungsrichtlinien angezeigt zu bekommen, entfällt das Hilfsmittel --> Einstellungen bitte den Haken bei "Workbench Neuigkeit". Wenn Sie die Transaktion erneut aufrufen, sehen Sie nach erfolgter Sm...

Alternativ können Sie auf die [Entwicklungsrichtlinien in der Smartbox](#) auch über Ihren Browser zugreifen.

Bei Fragen wenden Sie sich bitte an die Programmierung in Winnenden.



# STARTING POINT FOR ATC CHECKS - 1

## DEVELOPMENT DEV-1

### ATC-configuration in DEV-1

- Check-variants (SCI)
- Transport settings
- Message priorities
- Dependent on SAP release of DEV-1

## DEVELOPMENT DEV-2

### ATC-configuration in DEV-2

- Check-variants (SCI)
- Transport settings
- Message priorities
- Dependent on SAP release of DEV-2

## DEVELOPMENT DEV-x

### ATC-configuration in DEV-X

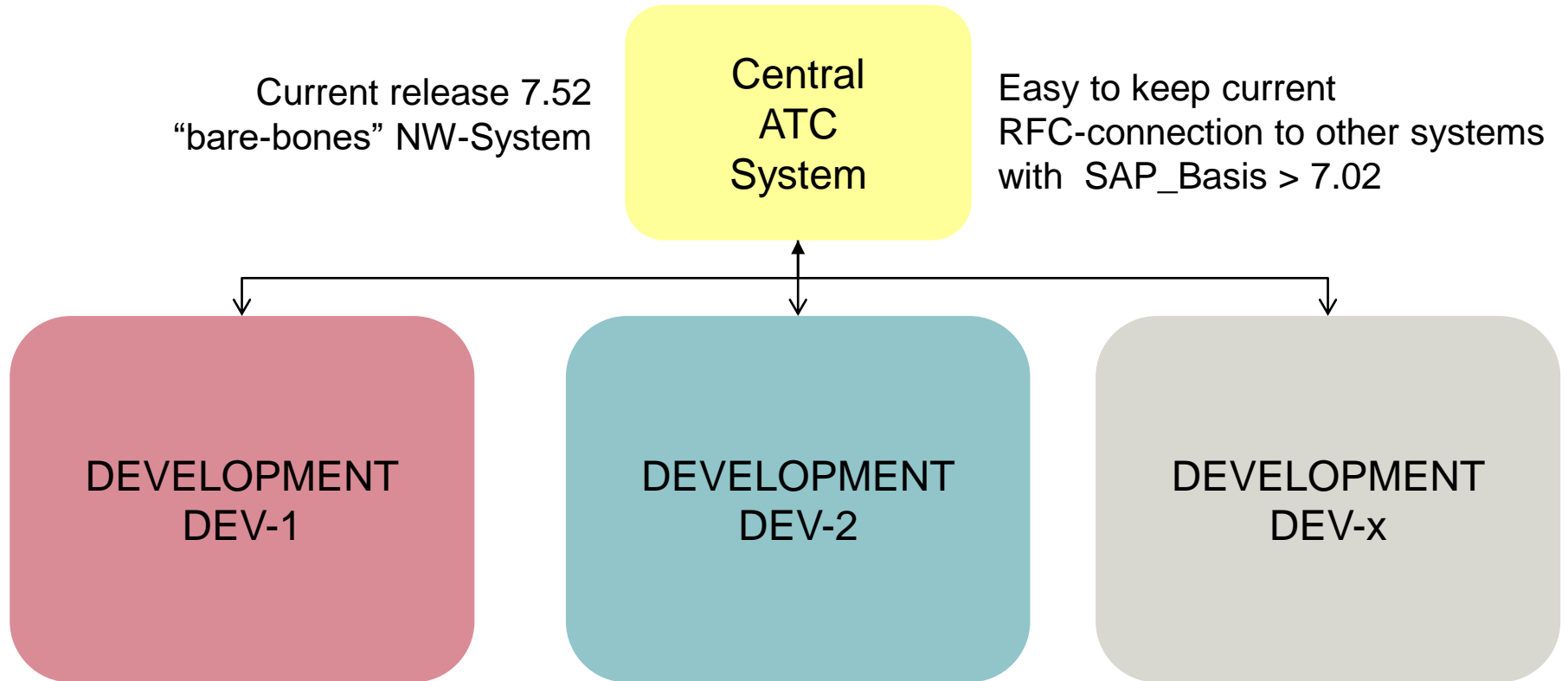
- Check-variants (SCI)
- Transport settings
- Message priorities
- Dependent on SAP release of DEV-X

# STARTING POINT FOR ATC CHECKS - 2


- Duplication of effort for initial configuration and ongoing maintenance
- Dependency between NW version of SAP-System and available ATC-checks
- S/4HANA Readiness Checks not yet possible with NW 750
- Check lists findings for complete program instead of just for the current changes, often generating long lists of errors
- No check for enhancements
- Checks only possible upon transport but not task release





# OUR GOAL




# OUR PATH – OR: THE LONG LONG WINDING ROAD


 **December 2016**  
First mention of a central ATC-system in Olga Dolinskaja's blog post


 **March 2017**  
Planning of update to HANA-DB in November. ATC-Checks gain importance!


 **November 2017**  
Adaptation of Z-Code for SAP-HANA using Smartshift


 **March 2018**  
Installation of a central ATC-Systems gets approved!




**January 2017**  
Proof of concept S/4HANA with access to NW 750 

**May 2017**  
Initial ATC-Checks in DEV-1 & DEV-2 to get developers used to it 

**Winter 2017/2018**  
Plans to move towards S/4HANA start to take shape 

**May 2018**  
1. inhouse developer workshop – albeit without system access 


# OUR PATH – OR: THE LONG LONG WINDING ROAD


 **July 2018**  
System available and getting configured. Sandbox systems get connected for testing purposes.

 **September 2018**  
2nd workshop with developers and activation of new central checks but without blocking of transport release in case of errors.

 **November 2018**  
Project to implement central ATC-checks successfully completed!



 **August 2018**  
DEV-1 and DEV-2 connected with central ATC-system, Baseline gets created and check runs are executed for testing purposes.

 **October 2018**  
Feedback-session to discuss first experiences and interactions. Afterwards, setting activated to block transport release when findings with priority 1 or 2 are encountered.

# LESSONS LEARNED 1

- “Good things take time”
- Many OSS-Notes need to be applied in the central ATC-system as well as the satellite systems.
- Make time for workshops and feedback sessions with developer team(s)
- ATC-related authorizations need to be given to a large group of people if you work with a trusted RFC-connection as we do.



## LESSONS LEARNED 2

- Testing can happen by triggering the ATC-checks from within a report (for details, check out blog post [How to trigger multiple ATC-checks in one go](#))
- Adjusting message priorities to decrease the number of priority 1 and 2 findings helps to avoid too many blocked transports upon release.
- Regular communication and easily accessible documentation increase acceptance.

# DOCUMENTATION IN OUR DEVELOPMENT GUIDELINES

## 1.2 ABAP Testcockpit (ATC) - FAQs

Created by Winkler, Baerbel, last modified on Nov 06, 2018

### Index to FAQs about ATC

- [What do the acronyms ATC and SCI stand for?](#)
- [What is a check variant?](#)
- [Why do we have a central ATC system?](#)
- [Do I ever need to login to the central ATC system?](#)
- [Which check-variant can I use before releasing my transport?](#)
- [Which checks are included in the central check variant?](#)
- [What is meant by "baseline"?](#)
- [Is the extended syntax check \(SLIN\) included in the central ATC-checks?](#)
- [How to avoid surprises during task/transport release?](#)
- [Why can I no longer ignore some errors and warnings upon transport-release?](#)
- [Why is a statement reported even though it shows a pseudo-comment for code inspector?](#)
- [Why are there findings for code I didn't touch?](#)
- [Is there additional information available for the displayed list of findings?](#)
- [What do I do when I cannot release a task?](#)
- [What should the exemption be requested for?](#)
- [Who do I pick as the Approver of an exemption request?](#)
- [Where can I learn more about ATC checks via a central system?](#)
- [Is there a list for open issues?](#)
- [Is there a risk that transports only containing translations get blocked when one of the impacted underlying objects shows priority 1 or 2 findings?](#)
- [Why do I get a tool failure error with priority 1 and cannot release my transport?](#)

### English presentation (September 7, 2018)



### German presentation (September 7, 2018)



# NEXT STEPS

- Additional feedback sessions as needed
- Connecting additional development systems
- Add more checks blocking the release of transports
- Run S/4HANA Readiness Checks as needed

# ADDITIONAL INFORMATION IN SAP COMMUNITY

## Blog post series about ATC from Olga Dolinskaja:

1. [Remote Code Analysis in ATC – One central check system for multiple systems on various releases](#)
2. [Remote Code Analysis in ATC – Technical Setup step by step](#)
3. [Remote Code Analysis in ATC – Working with Baseline to suppress findings in old legacy code](#)
4. [Remote Code Analysis in ATC for Developers](#)
5. [Remote Code Analysis in ATC – Working with Exemptions](#)
6. [Remote Code Analysis in ATC – Scanning customer extensions](#)
7. [Remote Code Analysis in ATC – Working efficiently with ATC Result List](#)
8. [Remote Code Analysis in ATC – FAQ](#)

## My blog posts about implementing a central ATC-system at Kärcher:

1. [Setting up a central ATC-system – Part 1: Setting the stage](#)
2. [Setting up a central ATC-system – Part 2: Preparing the systems](#)
3. [Setting up a central ATC-system – Part 3: Tweaking the settings to our liking](#)
4. [Setting up a central ATC-system – Part 4: The final stretch](#)
5. [Setting up a central ATC-system – the long, long winding road edition](#)



# QUESTIONS?

**MAKE A DIFFERENCE**  
THANK YOU

# CONTACT

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Find me on SAP Community:

<https://people.sap.com/baerbel.winkler2>

The screenshot shows the SAP Community profile of Bärbel Winkler. The header includes the SAP logo and navigation links: Products, Industries, Services and Support, Training, Community, Partner, and About. The profile section features a circular profile picture of Bärbel Winkler, her username @baerbel.winkler2, and her name Bärbel Winkler. Below this, there are tabs for Overview, About, Content, Connections, and Reputation. The 'About' tab is selected, showing her username baerbel.winkler2, a member since date of March 28, 2012, and links to her LinkedIn Profile, Twitter, Facebook, Skeptical Science, and a Standing offer - lending a helping hand. A QR code is visible in the bottom right corner of the profile section. The 'Connections' tab shows 122 Followers and 92 Following. The 'Reputation' tab shows a gear icon and a link to View all details.