A Clean Core: the 'why' and the 'how'

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Speaker introduction



- ✓ 25 years of SAP experience in a career of 30 years in a variety of roles including SAP product development, delivery/advisory/consulting, pre-sales, & sales; currently work for the SAP S/4HANA Center of Excellence, North America
- ✓ Served 100+ clients globally & across multiple industry verticals including Public Sector, Utilities, Media, Manufacturing, Pharmaceuticals, Oil & Gas, & Hi-tech among others
- ✓ Areas of expertise include SAP Financials, Logistics/Supply Chain, Reporting & Analytics, Data Management & Governance, Cloud technologies, User Experience, & Project/Program Management
- ✓ Prolific thought leader: Published over 100 articles & white papers for SAP publications; written 5 SAP books; spoken at nearly 150 SAP conferences globally



Agenda

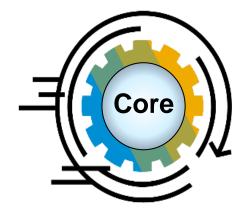
- Key Concepts
- Why is a clean core necessary
- How to achieve a clean core



Clean

Clean means up-todate, transparent, unmodified, consistent, efficient and cloud compliant.





The core describes the main aspects of an ERP system, namely extensibility, processes, data, integration and operation. Capabilities of the core depend on the implemented software-stack.

Do existing customers have a 'clean core'?

- Based on the concepts, very few existing SAP (ECC or S/4HANA on-premise) customers have a clean core
- Our observations on a 'dirty' core include:
 - Not on the latest enhancement package or release
 - Medium to large volume of customizations (WRICEF objects)
 - Modifications to SAP core code/functionality (aka core mods), especially in older versions (like SAP ECC & R/3)
 - Point-to-point integrations
 - Few decoupled 'extensions'
 - Data fragmentation, multiple versions of the truth



Agenda

Key Concepts

Why is a clean core necessary

How to achieve a clean core



Clean core – why (1)?



Rapid innovation

- Improve agility by creating distinguishing business models and scaling capabilities with the business
- Adapt to new versions with greater ease and consume innovations directly from SAP standard software releases
- Gain clear visibility into business process performance prioritizing innovations



Clean core – why (2)?



Better execution

- Make better decisions through increased data quality and availability
- Collaborate more meaningfully by using one version of the truth to break down siloed departments
- Optimize processes with new ways to connect people with projects throughout the business



Clean core – why (3)?



Efficient Operations

- Minimize technical debt → build technical wealth
- Use more of your resources toward innovation, instead of maintenance
- Strengthen compliance with changing regulations and complex processes for tracking, auditing, and reporting
- Optimize security through upto-date upgrades and the mostrecent innovations



SAP & the clean core



SAP is committed to helping customers achieve a clean core!!

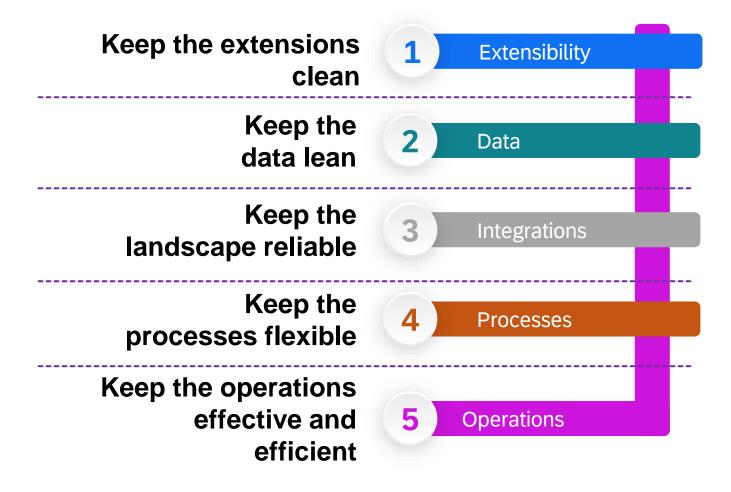


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How to keep the core clean

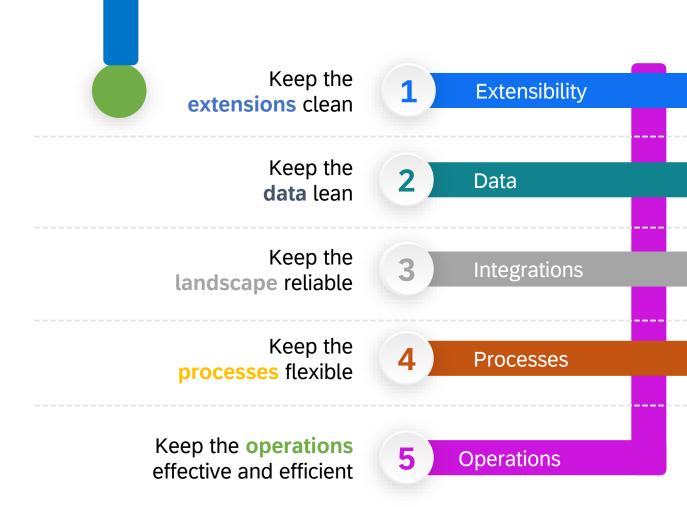




Keep the extensions clean

Key behaviors:

- Extensions should be avoided when possible
- Create cloud compliant Extensions, i.e. in a way that they would work in the cloud by setting up a strong governance
- Custom extensions do not break an upgrade and upgrades do not break an extension - separate extensions by leveraging released APIs
- Leverage the full capabilities of extensibility on the stack as well as sideby-side with SAP BTP
- Create technical debt only as the last resort





Keep the data clean



Key behaviors:

- Modern (configuration, master and transactional) data requirements are accuracy, completeness, consistency, timeliness, validity and uniqueness
- Data volume needs to be controlled in order to optimize memory and disk consumption
- Data should not contain outdated, unused or redundant information
- Personal master data must only be stored with justifiable purposes





Keep the landscape reliable



Main Aspects:

- Integrations shall be based on standard API's (OData and SOAP)
- Side-by-side extensions should leverage API Integration or S/4HANA Cloud SDK by utilizing the tight coupling with SAP Integration Suite
- Loosely coupled integrations could be realized in an Event-Driven Design based on standard Events
- Avoid traditional API's (RFC and IDoc) and their related classical extension options
- Proper monitoring and error resolution capabilities can be realized by utilizing
 SAP Application Interface Framework





Keep the processes reliable

Main Aspects:

- Business process design should be close to SAP up-to-date standard capabilities i.e. close to the shipped standard code-line
- Mandatory extensions should be documented, monitored and developed according to the requirements for clean extensions
- Organizations should be able to trace the business process performance based on a defined set of PPIs (Process Performance Indicators) and industry benchmarks





Keep the operations effective and efficient



Main Aspects:

- The paradigm of keeping the core clean is integrated into the end-to-end concept for operations
- Release management should make up the foundation for a clean core
- Housekeeping activities which are in line with SAP best practices should be pursued and the distribution of roles and responsibilities that are agreed with SAP should be followed





Clean core & S/4HANA deployments

 For Clean Core, the best case scenario describes an up-to-date system on the latest release, with cloud compliant extensions and integration, with optimal master data quality and with perfect process design

Greenfield

• Starting with a Clean Core and **stay clean** i.e. to **keep** a system updated and close to efficient standard processes, including modern extensibility and integration options as well as data governance; **Key enabler: S/4HANA Cloud, public edition**

Brownfield

 Get AND keep clean i.e. to bring a system closer to efficient standard processes, including the transformation from traditional custom code to modern extensibility, integration capabilities and data cleansing; Key enabler: S/4HANA Cloud, private edition

Clean core options with S/4HANA

Application

Deployment Type

Commercial Framework

SAP S/4HANA Cloud, public edition

Ready-to-run cloud ERP that delivers the latest industry best practices and continuous innovation.

Greenfield

GROW with SAP or RISE with SAP

SAP S/4HANA Cloud, private edition

Tailored-to-fit cloud ERP that adapts to your organization's unique transformation.

Brownfield

RISE with SAP



Key Takeaways

- Helping our customers attain or maintain a 'clean core' is a central & guiding principle of SAP
- A clean core enables customers to operate more efficiently, execute better, and be more innovative
- Clean core deals with multiple areas including extensions, data, integrations, processes, & operations -> clean core doesn't just mean minimal or no customizations
- SAP provides paths and approaches to achieving a clean core our RISE and GROW with SAP frameworks are key enablers

Questions?

For questions after this session, contact me at Anurag.barua@sap.com



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