

SAP Hybris (v)

# Landscape Deployment Recommendations for SAP Hybris Marketing

September, 2017

PUBLIC

# Disclaimer

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# Major Changes or Updates Summary

## Major changes or updates to former landscape deployment recommendations

Type of change	Former Status	New Status	Reason	Reference (former presentation)	Reference (current presentation)
<b>Enhancement</b>	<i>(not available)</i>	<i>Support for S/4HANA on premise</i>	Availability of S/4HANA on premise	./.	13-18
<b>Deployment Rating</b>	<i>Possible Exception</i>	<i>Not Supported</i>	Complex maintenance and sizing dependencies	Co-deployment with SAP CRM on same AS ABAP system	Slide 17
<b>Deployment Rating</b>	<i>General Recommendation</i>	<i>Possible Exception</i>	Complex CPU and sizing dependencies	Hub Deployment with shared SAP HANA system	Slide 14
<b>Deployment Rating</b>	<i>Reasonable Alternative</i>	<i>Possible Exception</i>	Complex CPU and sizing dependencies	Hub Deployment with shared SAP HANA system, Side-by-Side Deployment with shared SAP HANA system	Slide 15/16

# Agenda

## Introduction

- Methodology & Scope of Landscape Deployment Recommendations

## Basic Landscape Setups

- Recommendations for SAP Hybris Marketing

## Recommendations

- SAP Hybris Marketing – UI deployment

**Introduction**

**Methodology & Scope of  
Landscape Recommendations**

# System Landscapes at Customers

## Designing the Optimal Landscape Layout

# Customer

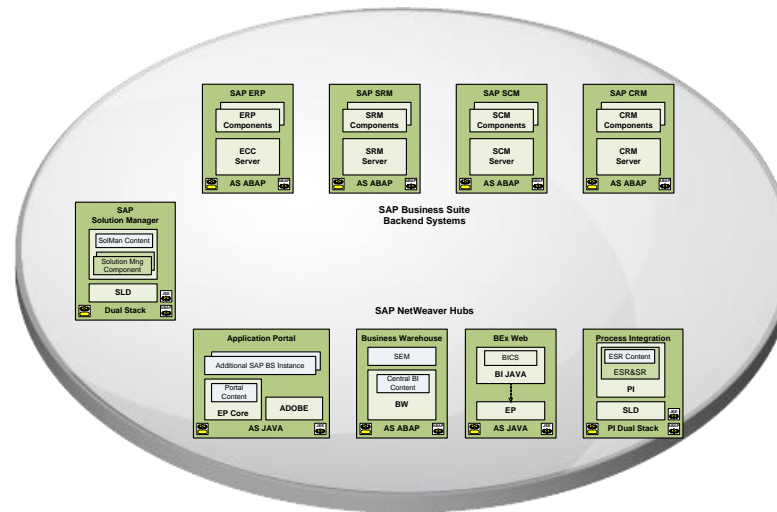
# SAP



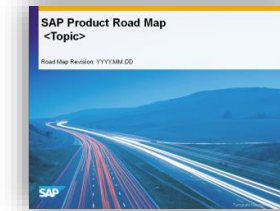
Business Aspects



IT Aspects



Solution Landscape of Customer



Product Roadmaps



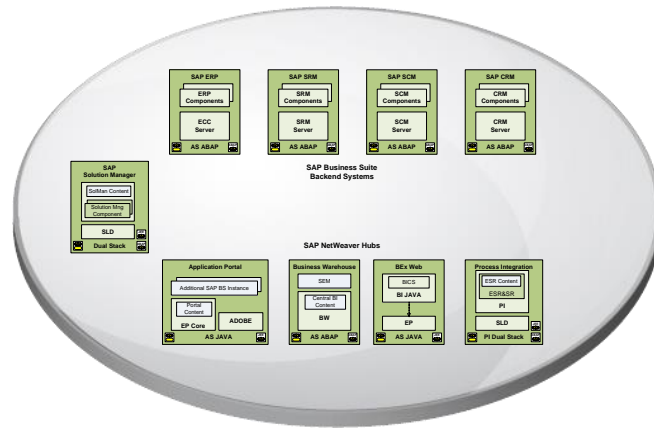
Deployment Recommendations for SAP Products



Technical Documentation (Planning, Installation & Configuration Guides, etc.)

# Deployment Recommendations for SAP Products

## Guiding Principles



Solution Landscape  
of Customer

←  
High-Level Guidance  
for optimized  
Landscape Layouts



[Deployment Recommendations  
for SAP Products](#)

- Allow **flexibility** by offering different deployment options (not one-size-fits-all)
- Provide **guidance** by rating different options
- Ease **decisions** by listing pros & cons
- Simplify **consumption** of information by using a common methodology
- Increase **reliability** by considering SAP product strategy, achieved landscape qualities and cross-product alignment

# Ease Landscape Planning By Stronger Guidance Used Methodology

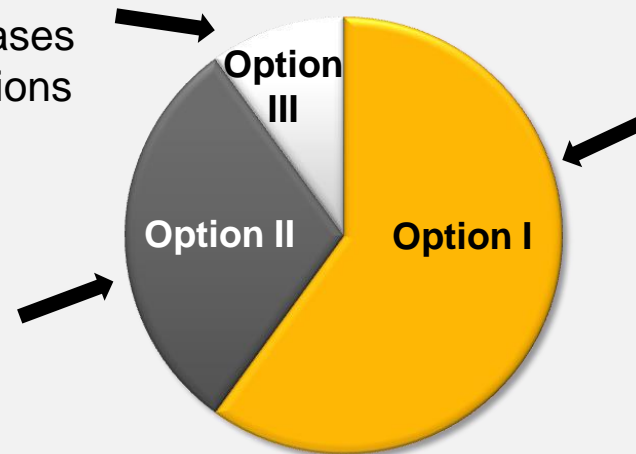
## Clear recommendations by categorization of deployment options

### Possible Exception

- Only useful for specific use cases
- Supported by SAP, but limitations might occur

### Reasonable Alternative

- Useful choice for certain use cases or customer scenarios
- Supported and confirmed by SAP's strategy



### General Recommendation

- Best choice for majority of typical landscape use cases
- Recommended by SAP's strategy
- Accepted by a wide base of customers

Goal



- Outlining main important aspects
- Optimal trade-off between flexibility and simplicity
- Applied to main building blocks of SAP products

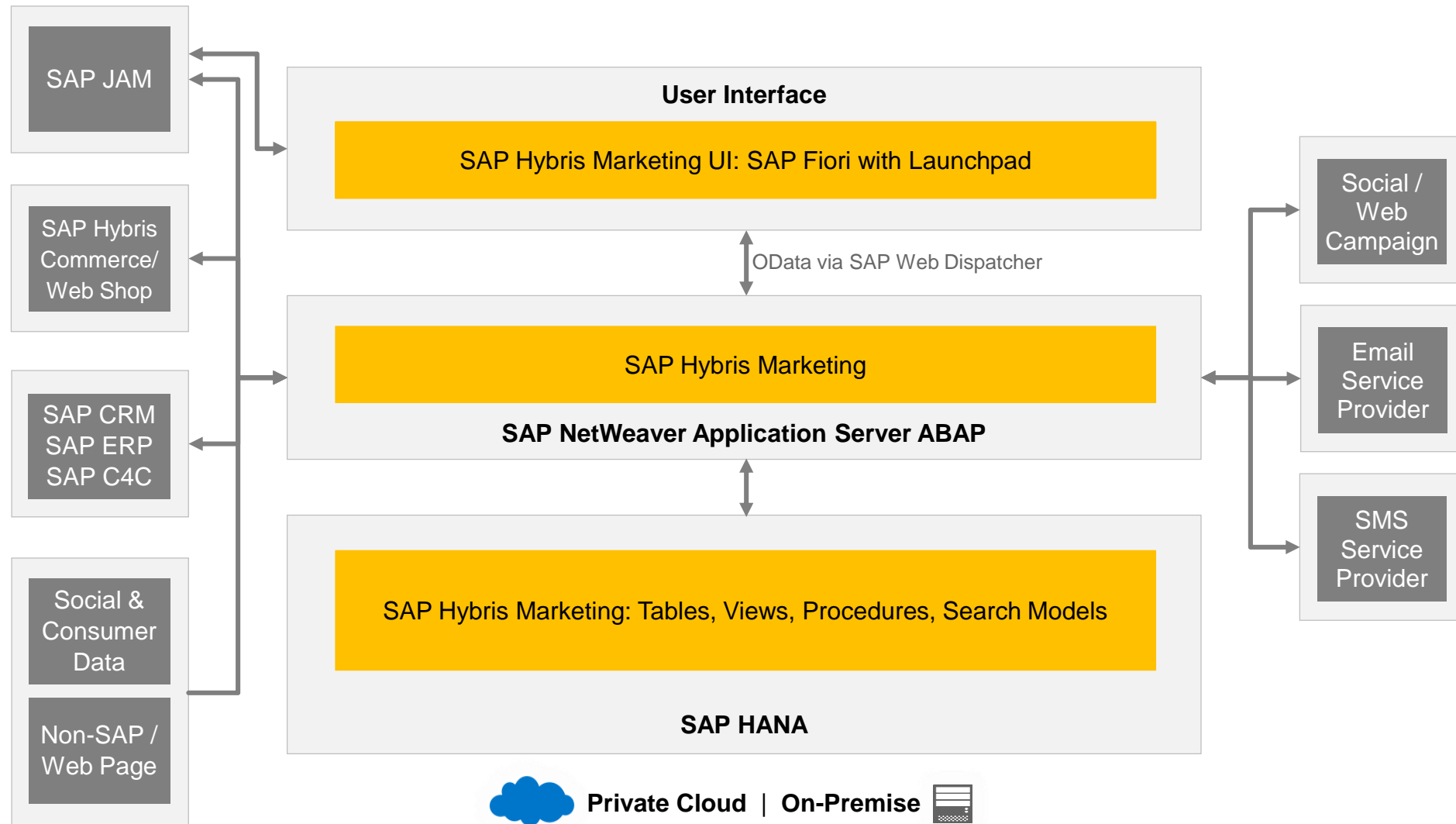
Consider



- Alternative deployment options typically have different pros & cons
- Customer individual assessment is **not** compensated

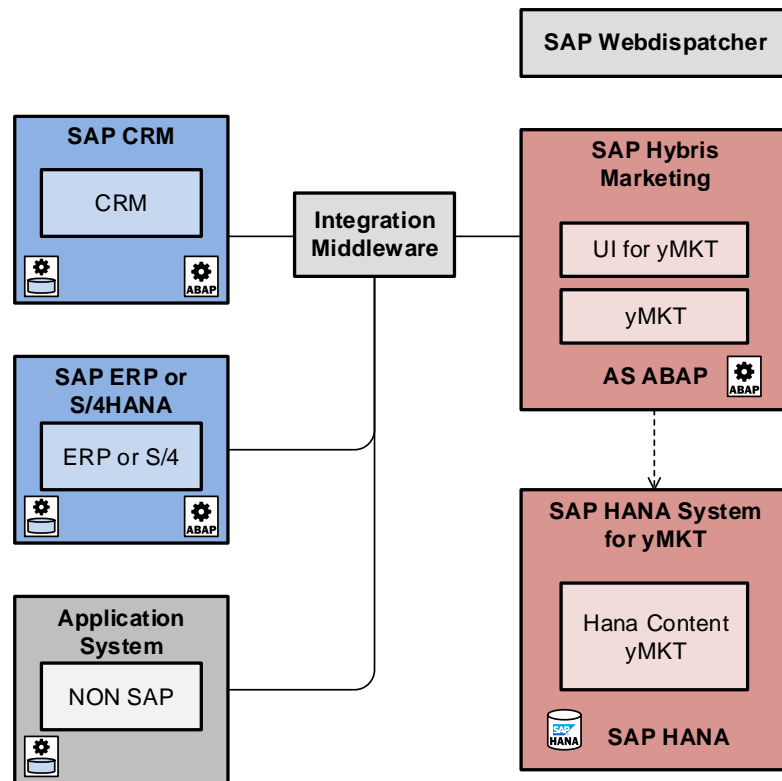


# Architecture Overview



# Product Deployment View

## SAP Hybris Marketing in System Landscapes



### Main required products

- External Application System based on SAP NetWeaver AS ABAP
- SAP Hybris Marketing (yMKT) Add-On
- SAPUI5-based UI for yMKT
- yMKT content for SAP HANA
- SAP HANA system
- SAP BS application system replicating business data
- Integration Middleware
  - SAP Process Integration (PI)/ SAP Cloud Platform Integration (CPI) for SAP ERP or S/4HANA, SAP CRM and NON-SAP applications
  - SAP Landscape Transformation (LT) for SAP ERP and SAP CRM (not S/4HANA)
  - SAP Data Services for NON-SAP applications

# **Basic Landscape Setups**

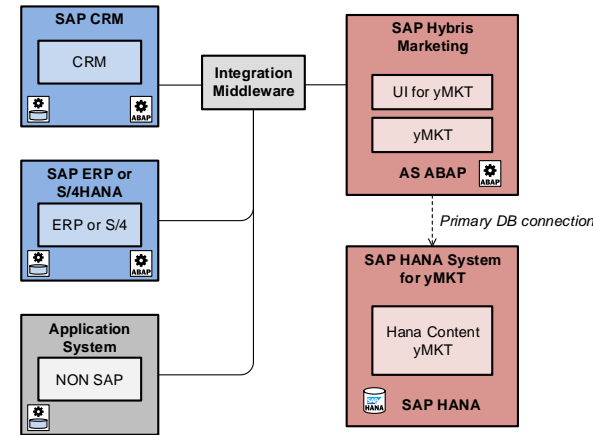
## **Recommendations for SAP Hybris Marketing**

# Deployment of SAP Hybris Marketing

## Overview of Recommended Landscape Patterns



### General Recommendation



*Hub Deployment with separate SAP HANA system and separate AS ABAP*



### Possible Exception



*Hub Deployment with shared SAP HANA system of SAP Business Suite*

*Hub Deployment with shared SAP HANA system of other application*

# Deployment of SAP Hybris Marketing

## Hub Deployment with separate SAP HANA system and separate AS ABAP

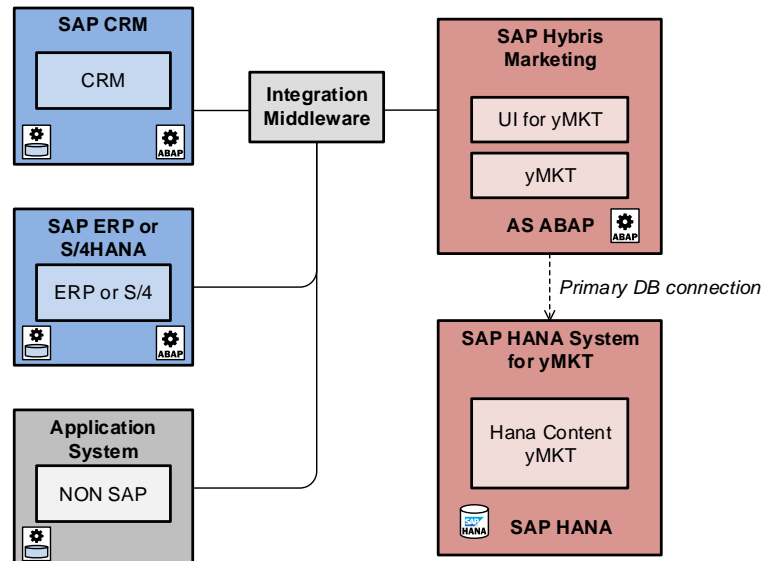
### General Recommendation

*("Non-disruptive yMKT deployment into existing SAP Business Suite landscape")*

- yMKT centrally integrated with multiple business applications (e.g. SAP ERP or S/4HANA on premise, SAP CRM, NON-SAP)
- yMKT deployed in the cloud or on-premise on a separate AS ABAP and SAP HANA system
- All required business data is replicated to the SAP HANA for yMKT system



### Example



### Benefits

- Fast adoption of yMKT via hybrid cloud or separate on-premise deployment
- Independent innovation speed for new yMKT capabilities
- Integration of SAP ERP or S/4HANA with CRM business data for yMKT possible
- Simple sizing
- No need to migrate SAP ERP or SAP CRM to HANA first
- No risk for existing SAP ERP/CRM system (performance, patching, downtime, etc.)

### Considerations

- One additional SAP HANA system required (could be deployed in the cloud)
- Connecting multiple SAP ERP or S/4HANA or multiple SAP CRM systems not supported

# Deployment of SAP Hybris Marketing

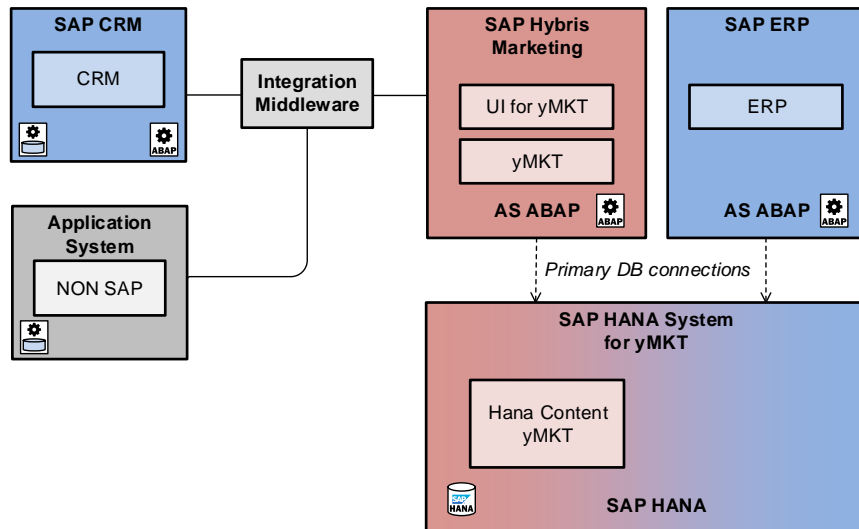
## Hub Deployment with shared SAP HANA system

### Possible Exception (“Deployment with shared SAP HANA”)

- yMKT centrally integrated with multiple business applications (e.g. SAP ERP, SAP CRM, NON-SAP)
- yMKT deployed on a separate AS ABAP system, but co-deployed on SAP HANA system of one SAP Business Suite Application (SAP CRM on HANA or SAP ERP on HANA) or S/4HANA



### Example



### Benefits

- Independent innovation speed for new yMKT capabilities
- Integration of SAP ERP or S/4HANA with SAP CRM business data for yMKT possible
- Flexible decision which SAP HANA system to use (SAP CRM or SAP ERP)

### Considerations

- Requires at least SAP CRM 7.03 on SAP HANA (resp. SAP ERP 6.07 on SAP HANA)
- More complex SAP HANA sizing
- Shared resources (CPU, memory) influence performance of other applications on top of SAP HANA system
- Impact on existing SAP HANA system during lifecycle operations (patching, downtime, etc.)
- Consider restrictions of SAP HANA co-deployments (SAP note [1826100](#), [2248291](#))
- Connecting multiple SAP ERP or multiple SAP CRM systems not supported
- S/4HANA OnPremise cannot be integrated through cross schema access

# Deployment of SAP Hybris Marketing

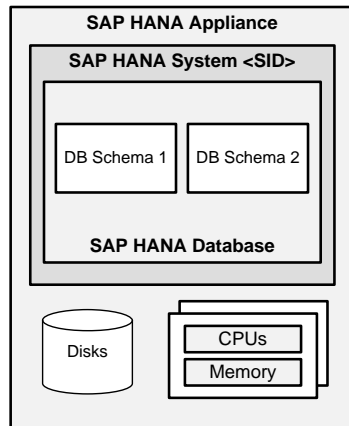
## Hub Deployment with shared SAP HANA system – General Remarks

### Possible Exception

(“Deployment with shared SAP HANA”)



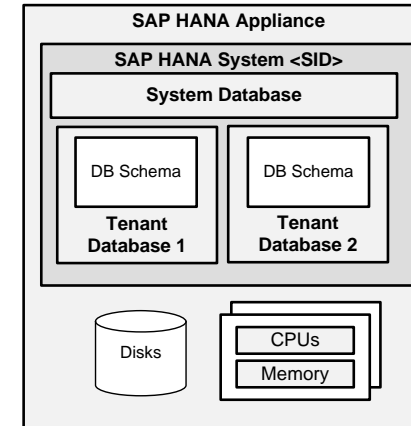
### Multiple Components one Database (MCOD)\*



- 1 SAP HANA Appliance
- 1 SAP HANA System
- 1 SAP HANA Database
- n Applications in different schemas

\* only supported for applications listed on white list (SAP Notes [1661202](#), [1826100](#))

### Multi Database Containers (MDC)



- 1 SAP HANA Appliance
- 1 SAP HANA System
- n SAP HANA Databases

- SAP HANA system shared with other whitelist applications like
  - SAP CRM, SAP ERP or S/4HANA
  - Other HANA applications
  - SAP BW
- Co-deployment on SAP HANA via MCOD installation
- Integration of ERP or CRM data across different schemas into SAP Hybris Marketing

- SAP HANA system shared with any other application
- Co-deployment on SAP HANA via MDC installation
- Replication of CRM, ERP or S/4HANA data into SAP Hybris Marketing has to be done via integration middleware

# Deployment of SAP Hybris Marketing

## Business Warehouse Hub Deployment with shared SAP HANA system

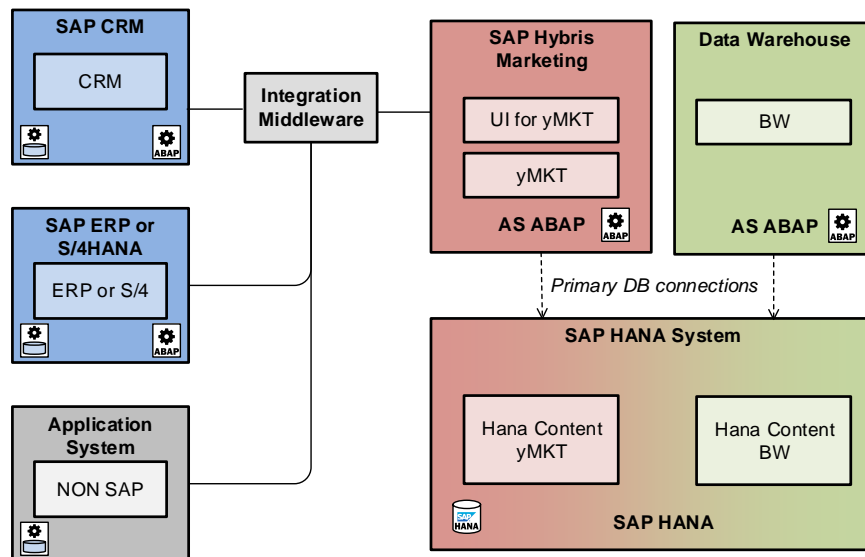
### Possible Exception

(“Data sharing with other SAP HANA-based application”)

- yMKT centrally integrated with multiple business applications (e.g. SAP ERP or S/4HANA, SAP CRM, NON-SAP)
- yMKT deployed on a separate AS ABAP system, but co-deployed with other application(s), e.g. SAP BW, on same SAP HANA system
- yMKT and other SAP HANA-based application(s) allow data sharing within SAP HANA system
- All required business data is replicated to the SAP HANA system



### Example



### Benefits

- Independent innovation speed for new yMKT capabilities
- Integration of SAP ERP or S/4HANA with SAP CRM business data for yMKT possible
- Lower TCO due to shared SAP HANA system and shared replication data
- Mutual data consumption between yMKT and other SAP HANA-based application (e.g. ADT accessing SAP BW data)
- No risk for existing SAP ERP/CRM system (performance, patching, downtime, etc.)
- No need to migrate SAP ERP or SAP CRM to HANA first

### Considerations

- Connecting multiple SAP ERP or multiple SAP CRM systems not supported
- More complex SAP HANA sizing
- Impact on existing SAP HANA system applications (performance, patching, downtime, etc.)
- Co-deployment on SAP HANA only supported for applications listed on whitelist (SAP note [1661202](#))



# Deployment of SAP Hybris Marketing

## Add-On Deployment with shared ABAP and SAP HANA system

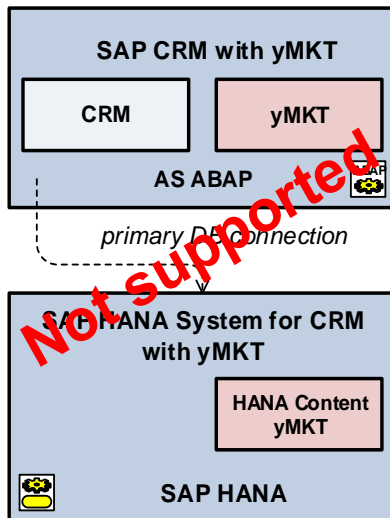
**Not Supported**

*(“Hardware minimized deployment with SAP CRM on SAP HANA”)*

- yMKT locally integrated with SAP CRM
- yMKT co-deployed on AS ABAP and SAP HANA system of SAP CRM
- SAP CRM business data is directly accessed by yMKT

**Not Supported**

### Example



### Implications

- Shared ABAP system not supported for SAP CRM (or any other SAP Business Suite application or S/4HANA)
- Innovation speed for yMKT dependent from SAP CRM
- High maintenance dependencies
- High manual effort for later scale-out, if yMKT needs to be separated
- More complex sizing (ABAP and SAP HANA)
- Impact on existing SAP HANA system of SAP CRM (performance, patching, downtime, etc.)
- Consider restrictions of SAP HANA co-deployments (SAP note 1826100)

# Deployment of SAP Hybris Marketing

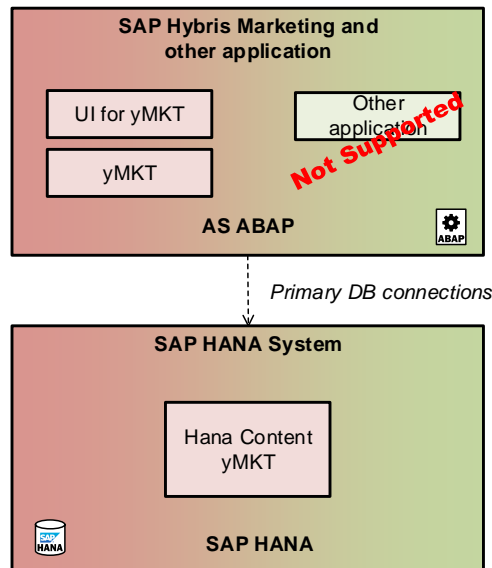
## Hub Deployment with shared ABAP and SAP HANA system

**Not Supported**

- yMKT centrally integrated with multiple business applications (e.g. SAP ERP, SAP CRM, NON-SAP)
- yMKT co-deployed on AS ABAP and SAP HANA system with other ABAP-based SAP HANA application
- Required business data is replicated to the SAP HANA system

**Not Supported**

### Example



### Implications

- **No support of a co-deployment with any other application on the same AS ABAP system**
- Innovation speed for yMKT needs to be aligned with other application
- Upgrades may not be possible
- Low maintenance flexibility
- High manual effort for later scale-out, if yMKT needs to be separated
- More complex sizing (ABAP and SAP HANA)
- Co-deployment on SAP HANA only supported for applications listed on whitelist (SAP note 1661202)

# **Recommendations**

## **SAP Hybris Marketing – UI Deployment**

# Deployment of UI for SAP Hybris Marketing

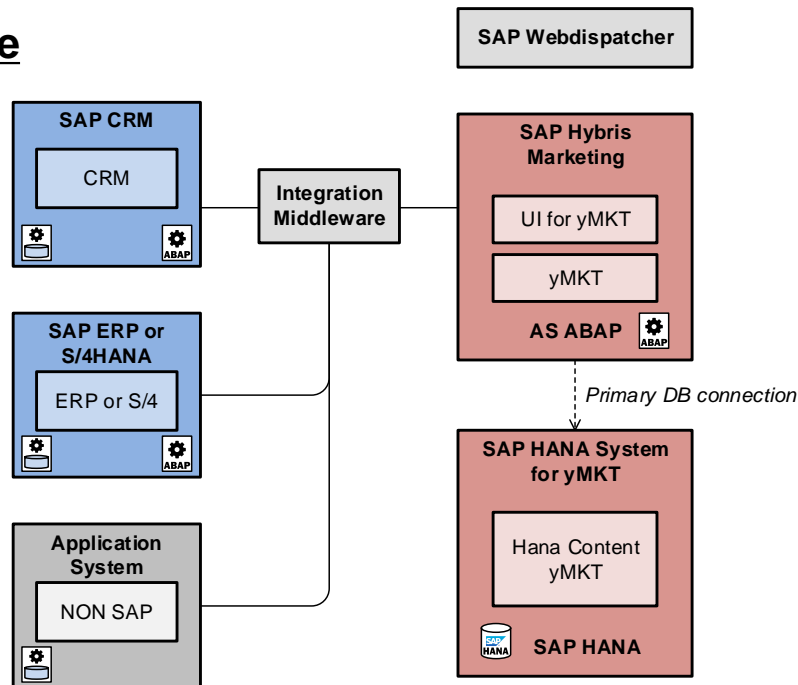
## *Embedded UI Deployment with yMKT AS ABAP system*

### General Recommendation

- UIs for yMKT deployed within product SAP hybris Marketing
- UIs for yMKT locally integrated with yMKT backend functionality
- UIs for yMKT co-deployed with yMKT backend application on same AS ABAP system



### Example



### Benefits

- Automated installation & configuration with yMKT backend functionality
- UI and yMKT backend application automatically in sync
- Lower alignment and regression test effort for updates (only yMKT concerned)
- All yMKT UIs are integrated within same environment (single URL, no Fiori Launchpad required)
- No additional system required
- Lower maintenance effort

### Considerations

- Innovation speed of yMKT UIs closely coupled with yMKT backend functionality
- No cross-integration with other SAP Fiori UI applications

# Deployment of UI for SAP Hybris Marketing

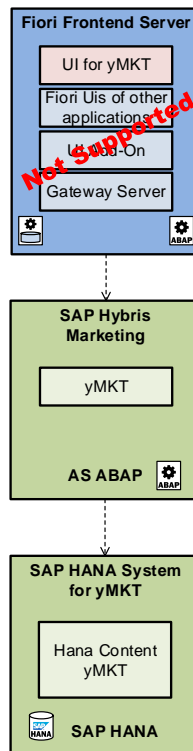
## Add-On Deployment with central SAP Fiori Front-End Server

**Not Supported**

**Not Supported**

- UIs for yMKT co-deployed with SAP Fiori UIs of other applications on central Fiori Front-End Server

### Example



### Reasons

- UIs for yMKT not shipped separately, but only as part of SAP Hybris Marketing
- Manual additional installation & configuration for yMKT backend connectivity required
- Strict version dependencies with yMKT backend application, frontend and backend parts need to be manually kept in sync
- Alignment and regression test effort for all UI applications after required updates of AS ABAP of central Frontend-Server
- Additional system required
- Performance and downtime side effects due to shared usage of Frontend-Server

# Thank you.

Contact information:

By mail to

**saphybrismarketingfeedback@sap.com**

or by a Support Incident on component name

**CEC-MKT-ITC**