FAKULTÄT FÜR INFORMATIK

TECHNISCHE UNIVERSITÄT MÜNCHEN

Master's Thesis in Informatics

Designing a business platform using microservices.

Rajendra Kharbuja

FAKULTÄT FÜR INFORMATIK

TECHNISCHE UNIVERSITÄT MÜNCHEN

Master's Thesis in Informatics

Designing a business platform using microservices.

Entwerfen einer Business-Plattform mit microservices.

Author:	Rajendra Kharbuja
Supervisor:	Prof. Dr. Florian Matthes
Advisor:	Manoj Mahabaleshwar
Submission Date:	

I confirm that this master's thesis in informatics is my own work and I have documented all sources and material used.

Munich,   Rajendra Kharbuja

Acknowledgments

Abstract

Contents

1 Architecture at Hybris

1.1 overview

SAP YaaS provides a variety of business services to support as well as enhance the products offered as SAP hybris front office such as hybris Commerce, hybris Marketing, hybris Billing etc. Using these offered services, developers can create their own business services focussed on their customer requirements.

The figure 1.1 provides the overview of YaaS. YaaS provides various business services (bPaaS) essential to develop applications and services thus filling up the gap between SaaS and HCP. For that purpose, it consumes the application services (aPaaS) provided by HCP.
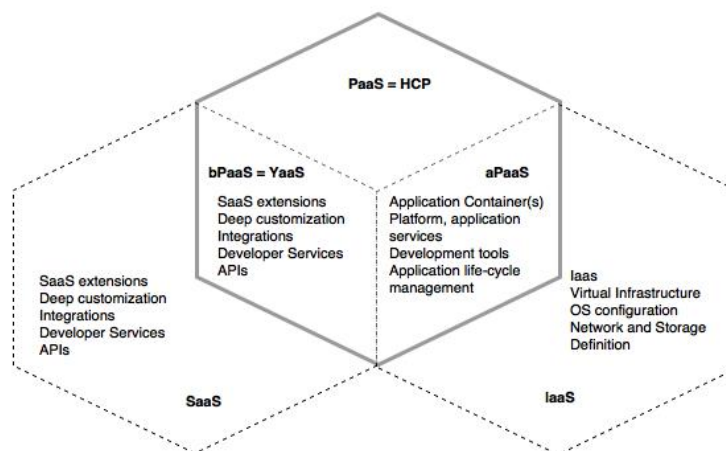
Figure 1.1: YaaS and HCP

Acronyms

CRUD create, read, update, delete.

DEP Dependency.

IDE Integrated Development Environment.

IFBS International Financial and Brokerage Services.

ISCI Inter Service Coupling Index.

ODC Operation Data Granularity.

ODG Operation Data Granularity.

OFG Operation Functionality Granularity.

RCS Relative Coupling of Services.

RIS Relative Importance of Services.

SCG Service Capability Granularity.

SDG Service Data Granularity.

SDLC Software Development Life Cycle.

SFCI Service Functional Cohesion Index.

SIDC Service Interface Data Cohesion.

SIUC Service Interface Usage Cohesion.

SIUC Service Sequential Usage Cohesion.

SLC Self Containment.

SMCI Service Message Coupling Index.

SOAF Service Oriented Architecture Framework.

SOCI Service Operational Coupling Index.

SOG Service Operations Granularity.

SRI Service Reuse Index.

SWIFT Society for Worldwide Interbank Financial Telecommunication.

UML Unified Modeling Language.

List of Figures

List of Tables