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DAT	BID	ASK	PRO	QUA
JAN	€ 942,00	€ 348,00	€ 820,00	820
FEB	€ 685,00	€ 920,00	€ 784,00	784
MAR	€ 993,00	€ 604,00	€ 934,00	934
APR	€ 228,00	€ 202,00	€ 555,00	555
MAY	€ 468,00	€ 685,00	€ 386,00	386
JUN	€ 609,00	€ 963,00	€ 974,00	974
JUL	€ 617,00	€ 240,00	€ 575,00	575
AUG	€ 939,00	€ 858,00	€ 645,00	645

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January 20: *Stretch: How to Future-Proof Yourself for Tomorrow's Workplace*

February 4: *Should I Stay or Should I Go? with DJ Sherryanne Meyer*

February 11: *Focus on Digital Transformation with Mike Ettling*

March 2: *Critical SuccessFactors for Management of HR: How Does HRIS Take Shape in the Cloud?*

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A vibrant, low-angle photograph of a jazz band performing in New Orleans. The scene is bathed in warm, golden light, likely from street lamps or stage lights. In the foreground, a man with a beard and glasses is captured in profile, playing a trumpet. To his right, another man is playing a clarinet. In the background, a large, polished brass instrument, possibly a tuba or euphonium, is visible. The overall atmosphere is lively and musical, characteristic of a jazz performance in the French Quarter.

ASUG
CONFERENCE

**SAP Analytics &
BusinessObjects**

New Orleans
October 18-20, 2016

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S/4HANA Finance



SAP Credit Management

Katharina Reichert, January, 2016

Customer

Series on Receivables – Every other Thursday

- Jan 14 - Introduction to Receivables – high level overview
- **Today– “The SD Credit Check is gone!” What is new in Credit Management in S/4HANA**
- Feb 11 – Tools to Lower DSO
- Feb 25 – Deployment and Integration Options: Deeper Dive on HANA Cloud Platform apps and Central Finance

A comprehensive Portfolio for the CFO

Covering all business areas across all Finance roles



SAP S/4HANA Finance - delivers functional completeness across all financial roles

 Chief Financial Officer

 VP of Finance

Financial Planning & Analysis

Strategy Development and Translation

Planning, Budgeting and Forecasting

Profitability and Cost Management

Monitoring and Reporting

 Head of Corporate Reporting

Accounting & Financial Close

Accounting

Entity Close

Corporate Close

Reporting and Disclosure

Financial Close Governance

 Corporate Treasurer

Treasury & Financial Risk Management

Payments and Bank Communications

Cash and Liquidity Management

Debt and Investment Management

Financial Risk Management

Commodity Risk Management

 Head of Finance Operations

Finance Operations

Receivables Management

Invoice Management

Travel Management

Real Estate Management

Financial Shared Services

 Chief Compliance Officer

Enterprise Risk & Compliance Management

Enterprise Risk Management

Controls and Compliance Management

International Trade Management

Fraud Management

Audit Management

SAP Receivables Management is a portfolio of automation solutions



Accounts Receivable – standard process automation

Manage all financial accounting–related aspects of customer accounts receivable.



Credit Evaluation and Management

Embed proactive credit management in transactional processes and portfolio analysis.



Billing and E-Invoicing

Deploy a customer bill payment portal or an e-billing process.



Dispute Resolution

Clarify and resolve customer payment disputes quickly and efficiently.



Collections Management

Proactively manage customer collections and customer service.

SAP Credit Management – Balance risk and return with a unified global view of your customers



- Cross-enterprise and cross-system credit evaluation and management process, including disputes and dunning information
- Customer scoring based on your rules, including internal and external factors
- Easy access to credit information for your sales team
- Workflow for faster decision-making once credit limits reached



0.3%

The amount of accounts receivable write-offs by the 25% top-performing companies (compared to 3.1% for the bottom 25%)

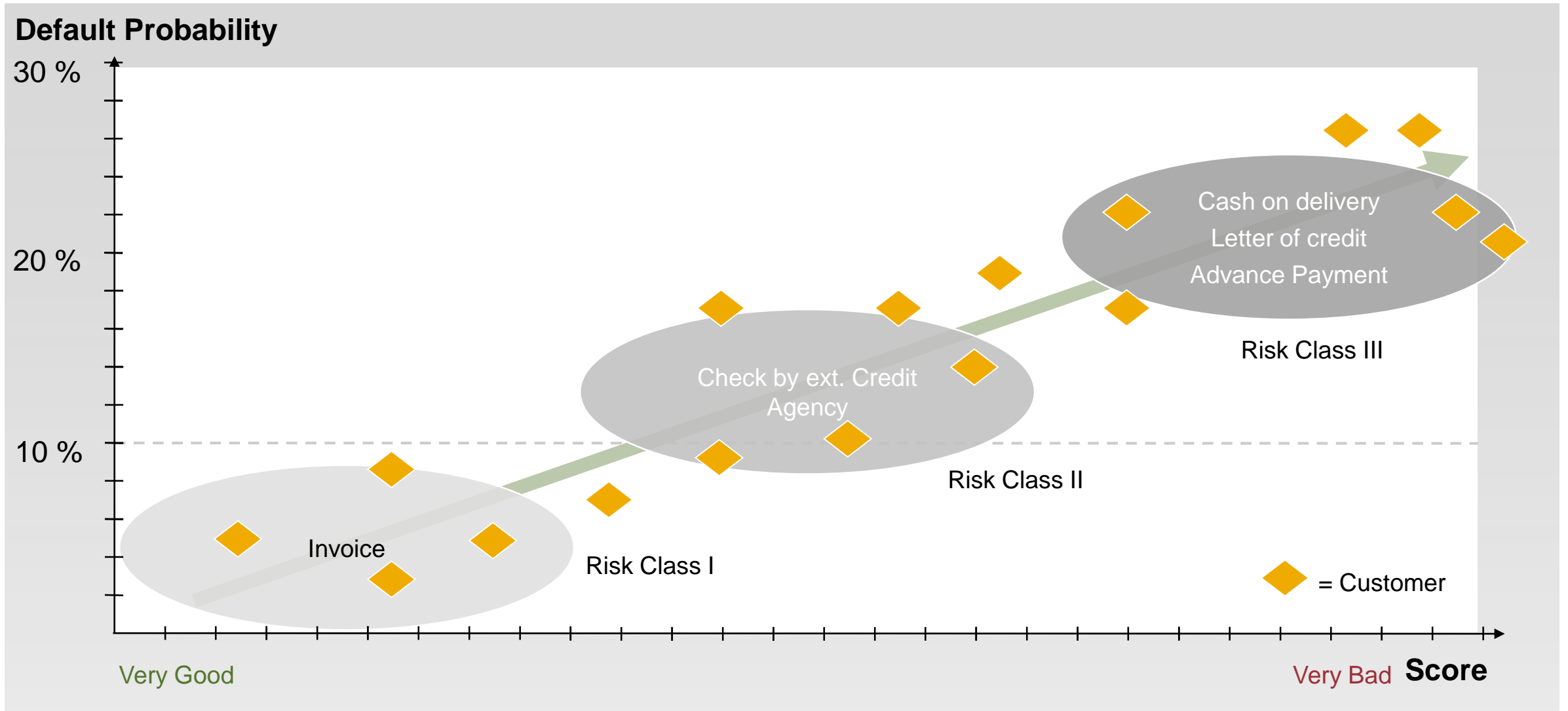
Source: ASUG Benchmarks

Challenges in managing credit

- **Inconsistency in credit policy:** a customer is treated differently in different business units within the same company; ineffective credit management in distributed sales systems
- **Cross-department collaboration:** information needed for credit decisions is spread out all over the company; communication between sales, credit, and finance departments is very time-consuming
- **Treatment of new customers:** No credit history available when doing business with new customers



Default probability determines customer treatment



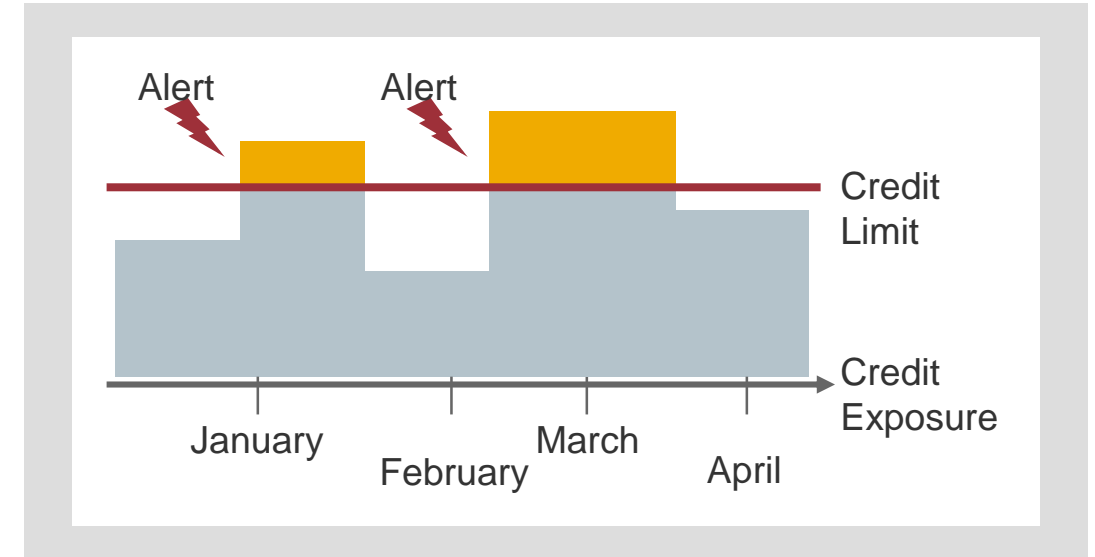
Credit limit management

Functions

- Manages the credit profile of a customer
- Monitor credit exposure / limit in a central system
- Web-Based access to customer's credit profile
- Rules Engine for implementing own scoring and limit rules
- Scalable platform to use in B2B and B2C Scenarios
- Score customers and vendors

Business Benefit

- Implement company wide credit policy
- Early identification of default risk
- Reduce processing costs by automating credit decisions



Credit case

Functions

- Virtual Folder to track credit applications
- A credit case contains
 - Major customer master data & credit profile
 - Status
 - Organizational data
 - Documents
 - Orders
 - Notes
 - Inbox
- A credit case can be sent from user to user via SAP Workflow

Business Benefit

- Sales people can enter an application for credit limit change
- Track status of the application
- Inform sales when decision is made



Documented credit decision

- A sales order which is entered in SD gets credit checked
- In case of a negative credit check the sales order gets a status “credit block”
- In this case the system automatically creates a new object called “Documented Credit Decision” (DCD) which is linked to the credit blocked sales order
 - Various attributes such as priority, responsible credit analyst
 - A snapshot of the credit account in order to document the exact state of all attributes and values
 - The log of the credit check
 - Notes & attachments
 - An approval process is supported which describes who may approve the credit decision / release the respective sales orders
- DCDs can also be created for delivery documents (in addition to sales orders)

Credit analysis

Functions

- Company-wide monitoring of credit risk
- Analysis of customer payment and order behavior
- Alert on high risk customers
- Risk structure analysis of the customer base by country / business unit / customer group

Business Benefits

- Proactive credit management
- Identification of risks before customer becomes insolvent
- Hedging of high risk customers reduces unexpected losses
- Aim marketing and sales activities to low-risk customers
- Drive price policy by a customer risk category



Real-time processing and integration

Automatic credit worthiness checks

- Credit limits checks carried out when entering orders, deliveries, good issues
- Any system can be connected to SAP Credit Management

Up-to-date credit exposure for all customers

- Any system can be connected to SAP Credit Management
- Immediate exposure updates
- Integration with Accounts Receivable
 - Exposure
 - Payment behavior key figures

Permanent customer scoring

- Scores are always updated in real-time
- Recalculation of scoring event-driven

Traceability

- Change documents, various logs, ...

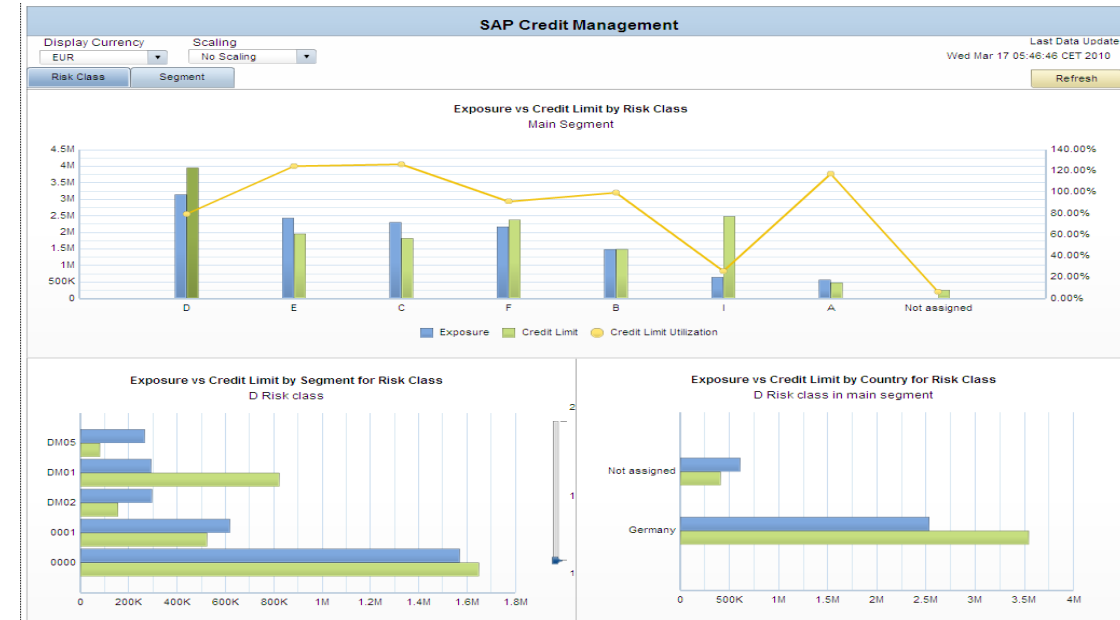
In releases before SAP HANA, Xcelsius dashboards visualize BW data

This dashboard helps you to analyze / answer following questions:

- What is the credit exposure to customers of various risk classes?
- What is the average credit limit utilization of customers of various risk classes?
- How do these figures look by country?
- How do these figures look by organizational entity (= credit segment)?

Based on this **insight**, following **action** might be taken (examples):

- Take provisions for anticipation credit default.
- Take measures to reduce overall credit exposure in critical risk classes if respective exposure appears to be too high.
- Try to optimize customer portfolio considering risk profile.



With SAP HANA, Fiori analytics provide real-time insight without data replication

- Cross-enterprise and cross-system credit evaluation and management process, including disputes and dunning information
- Customer scoring based on your rules, including internal and external factors
- Easy access to credit information for your sales team
- Workflow for faster decision-making once credit limits reached



Business partner in SAP Credit Management

Change Person: SCOTT, role Credit Mgt Business Part.

Business partner: SCOTT, James Scott / 60000 Frankfurt

Change in BP role: Credit Mgt Business Part. (Ma)

Scoring Rule:
Rules that define how a customer is scored (e.g. industry, D&B, legal form, country)

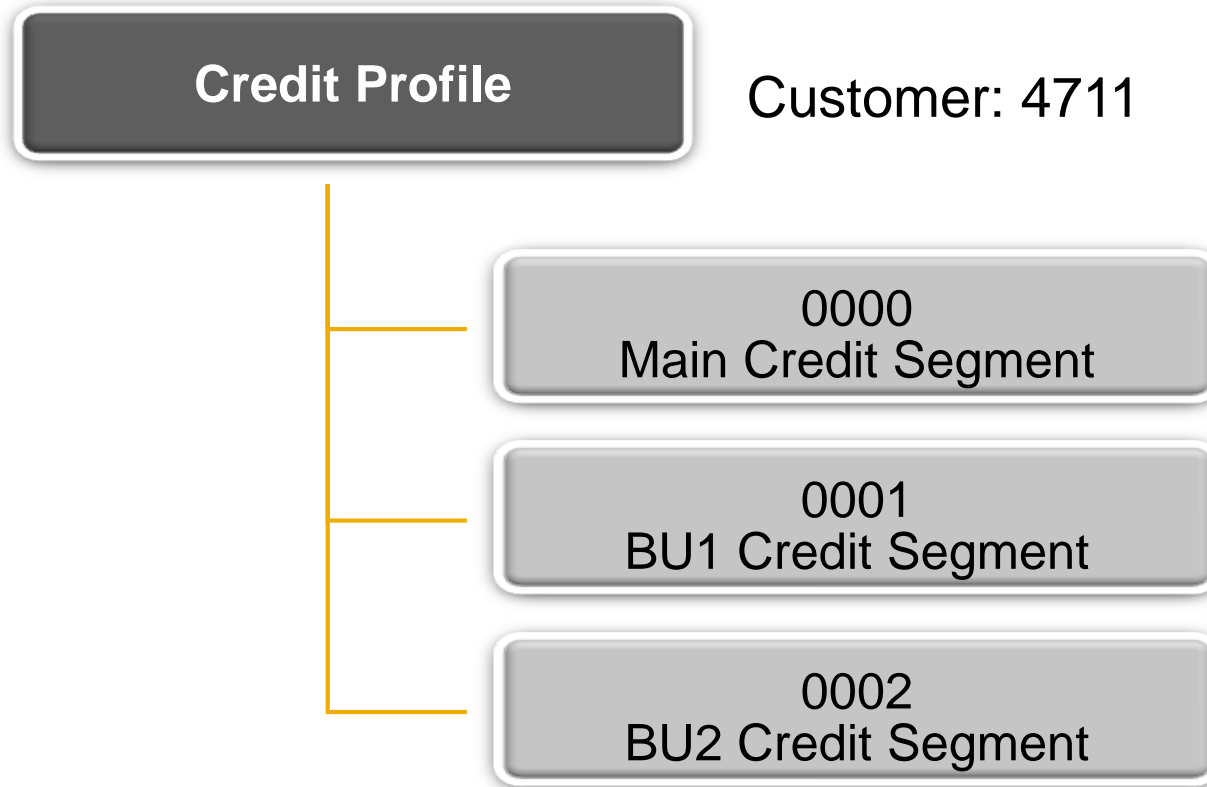
Credit Check Rule:
Rules that define how a customer is credit checked (e.g. static / dynamic check, oldest open item ...)

External Rating from D&B

Rating	Score	Risk Class	Credit Group
Rule for New Business Customers	23	Medium Default Risk	2 Small/Medium Custo
Z10 Default - all credit checks active			

Rating	Proced...	Allowed	Rating	Trend	Defa...	Valid From	Valid To	Rated on	Text
D&B CAP		<input checked="" type="checkbox"/>	2A2	+ Positive	<input type="checkbox"/>	11.05.2004	31.12.2999	11.05.2004	
		<input checked="" type="checkbox"/>			<input type="checkbox"/>				
		<input checked="" type="checkbox"/>			<input type="checkbox"/>				
		<input checked="" type="checkbox"/>			<input type="checkbox"/>				
		<input checked="" type="checkbox"/>			<input type="checkbox"/>				
		<input checked="" type="checkbox"/>			<input type="checkbox"/>				

Concept of credit segments



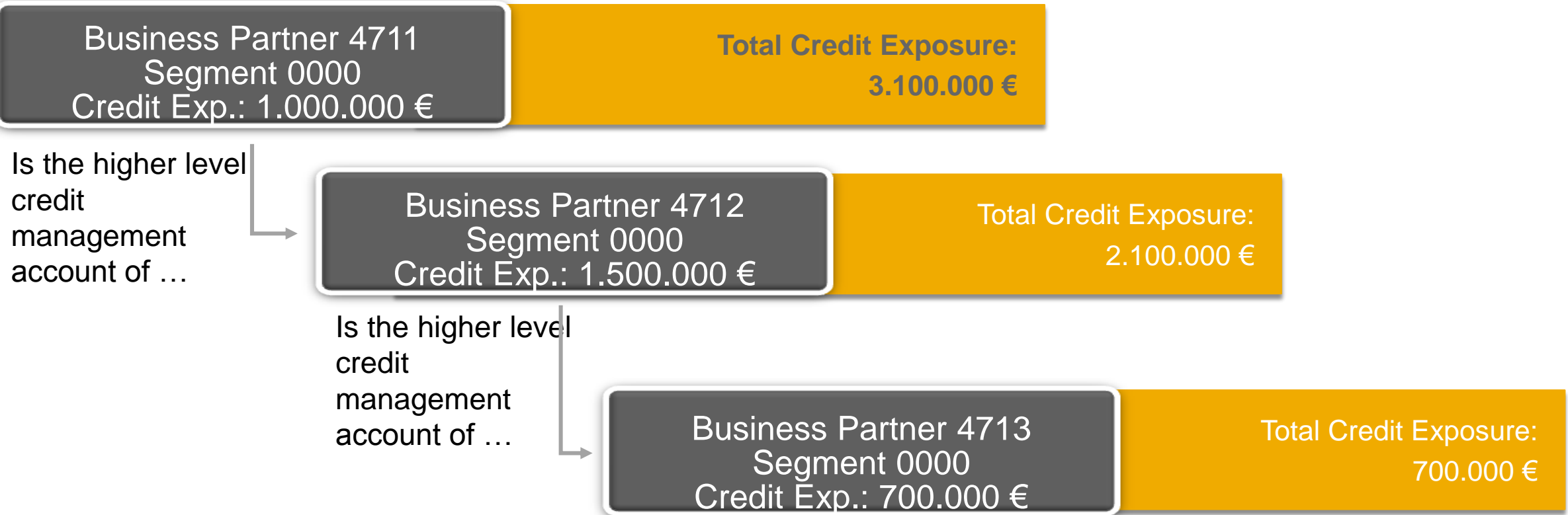
Exposure HQ:	100.000€	
Exposure BU1:	30.000€	←
Exposure BU2:	20.000€	←
Total Exposure:	150.000€	
Limit:	160.000€	
Exposure:	30.000€	←
Limit:	35.000€	←
Exposure:	20.000€	
Limit:	30.000€	

Customizing: Credit Segment 0001 + 0002

☒ Contribute to Main Credit Exposure

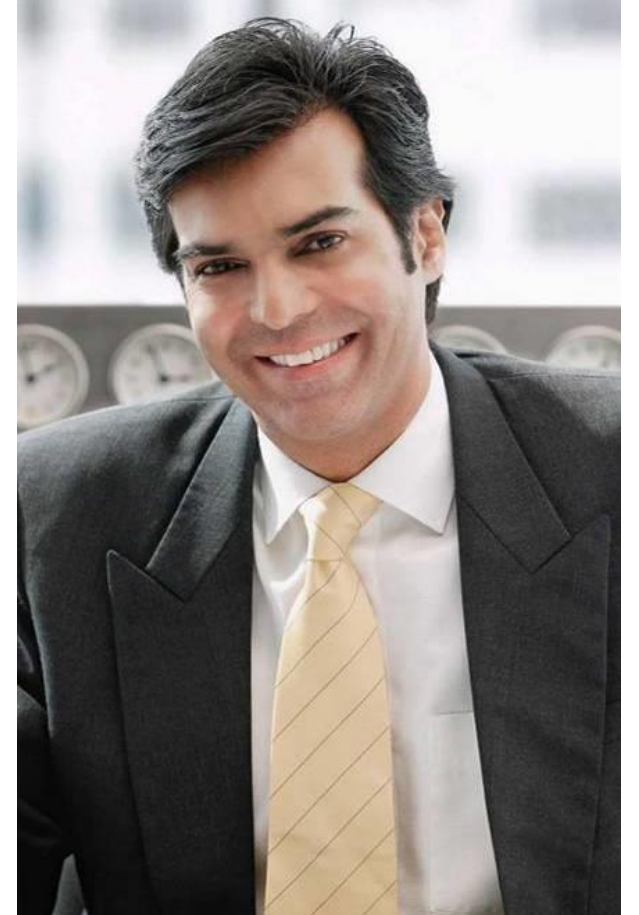
Relationships

Higher-level credit management account of ...

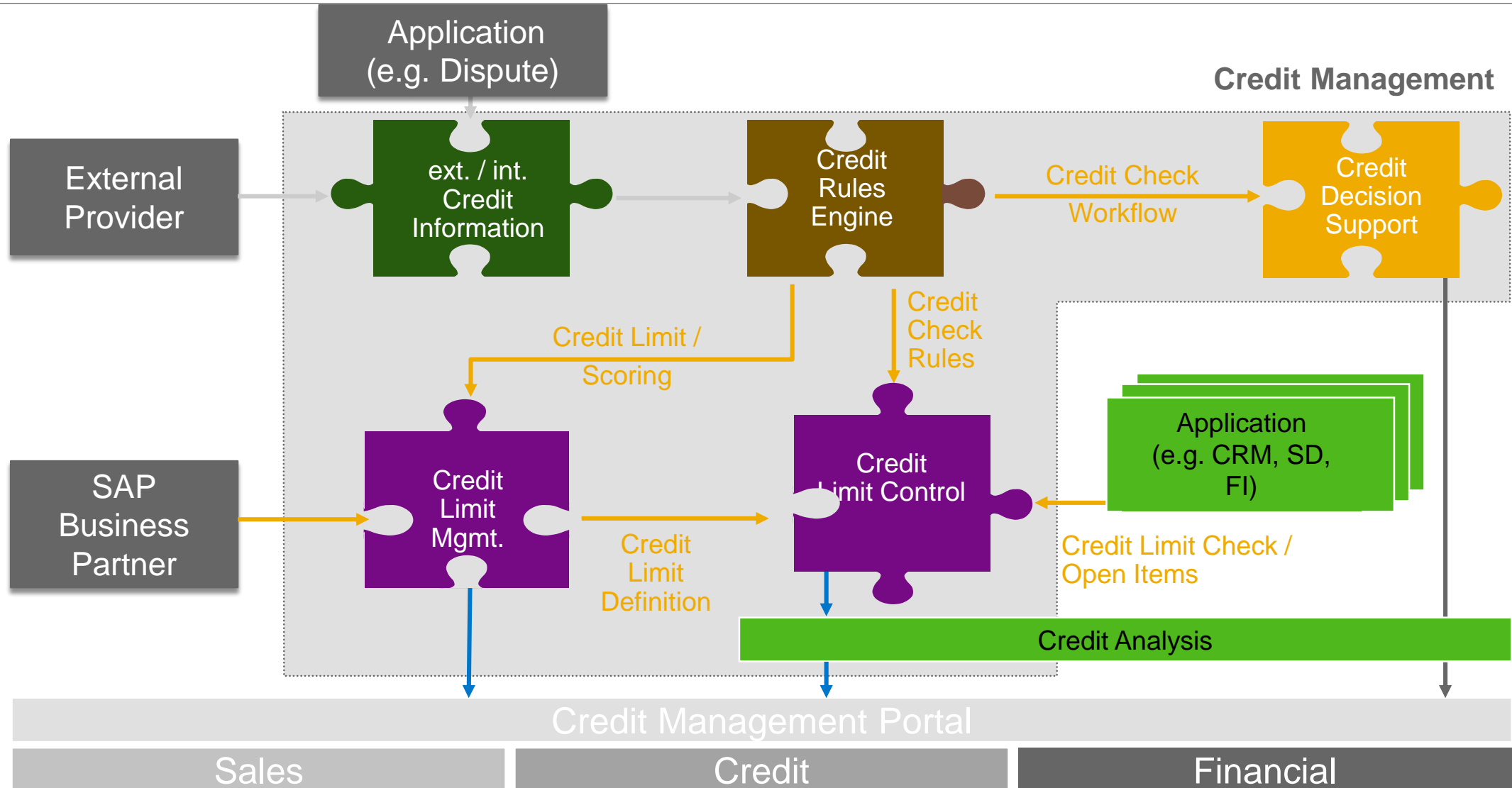


Credit rules engine

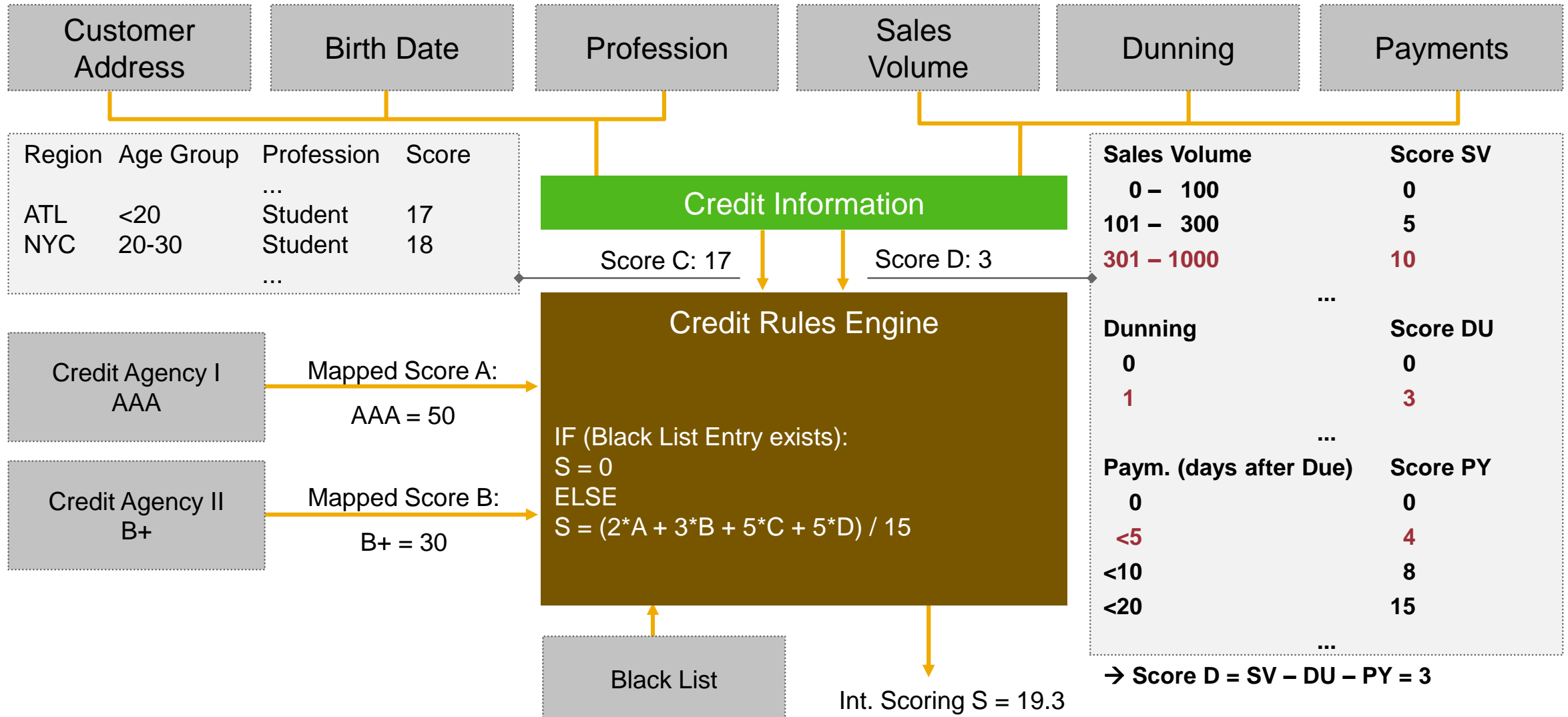
- Create a **scoring formula** and **credit limit formula** by using the **formula editor**. Parameters (for example, business partner data) and functions are used as input parameters.
- One scoring formula and several credit limit formulas (for each credit segment) are assigned to the rule for scoring and credit limit calculation, which is assigned to each customer in the credit profile. The **risk class** is determined directly from the score.
- In customizing, specific score ranges which do not overlap are assigned to each risk class. For the **check rule**, the system determines the steps which are taken to check the creditworthiness of a customer when a sales order is created. This may include the static check of the credit limit or a check of the highest dunning level.
- Customer-specific process chains in SAP Credit Management can be defined through **events which trigger follow-up actions**



Credit rules engine



Calculate internal credit scoring (existing customer)



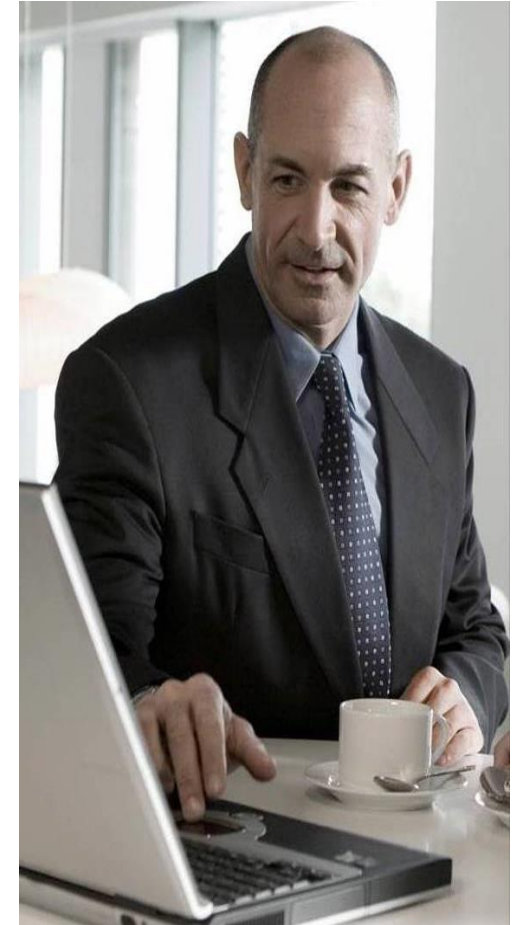
Scoring formula

- The scoring rules define the way a customer is scored – the result is a score
- You define the scoring rules in the formula editor by using the following input parameters
 - SAP Business Partner – Master Data (preconfigured field selection)
 - Input parameters can be enhanced via BAdI implementation
 - Result of the scoring formula:
 - Score (numeric or alphanumeric)
 - “Valid to” data
 - Risk class determined
 - A valuation log is available to clarify the results



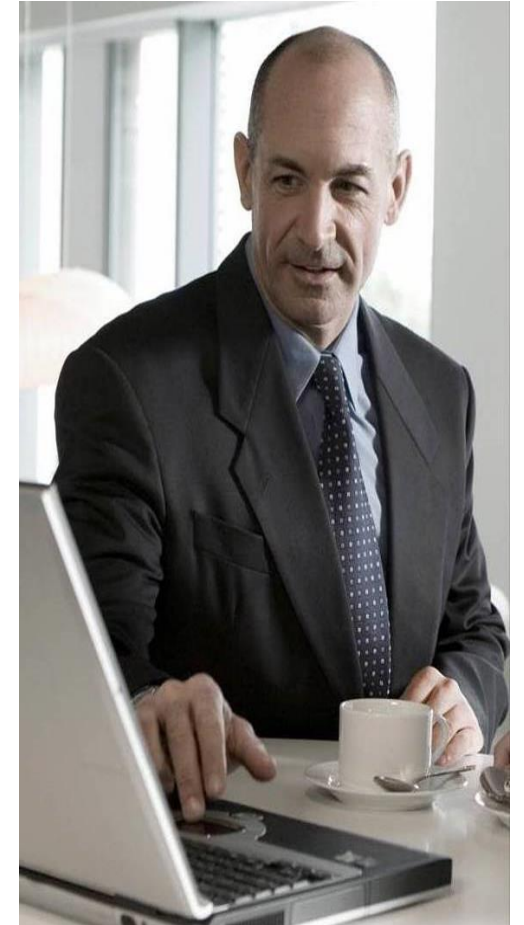
Credit limit formula

- The credit limit formula determines how the credit limit proposed by the system is calculated
- You define the credit limit formula in the formula editor by using following input parameters:
 - SAP Business Partner – Master Data (preconfigured field selection)
 - Input parameters can be enhanced via BAdI implementation
 - Result of the credit limit data:
 - Credit limit (numeric or alphanumeric)
 - “Valid to” data
 - A credit limit formula can be assigned for each rating procedure and credit segment
 - A calculation log is available to explain the credit limit proposal



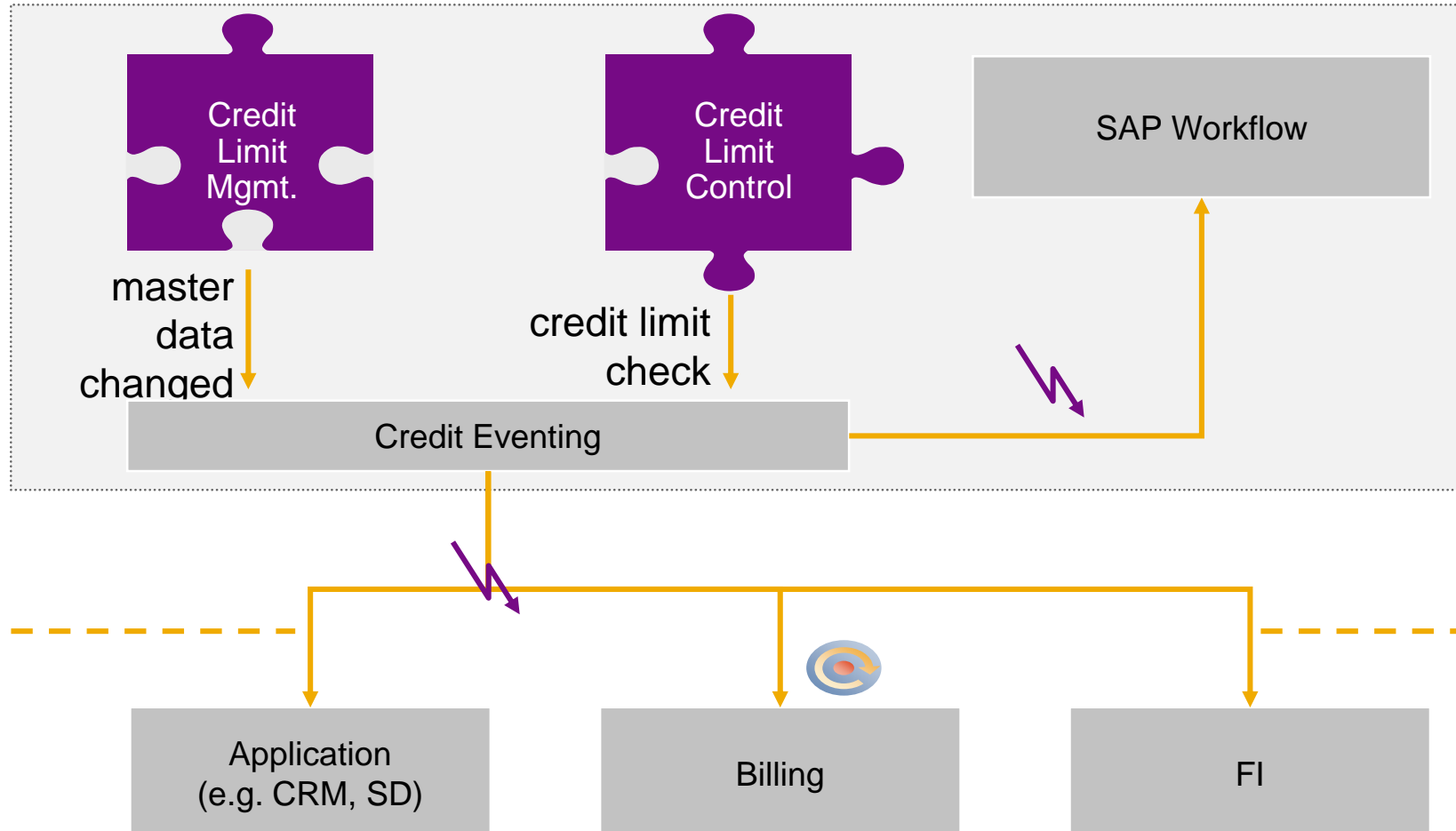
Credit checking rules

- The check rule determines the steps that are taken to check the credit worthiness of a customer when a sales order is created, and leads to a credit decision about the order
- Available credit checks:
 - Dynamic/static credit limit check
 - Check for collateral, credit insurance
 - Check for the Maximum dunning level
 - Check for the oldest open item
 - Check for an order block set centrally by credit management
 - Check for key figures for the customer's payment behavior (e.g. DSO)



Credit eventing

Credit Management



Credit Events

- Credit limit exceeded
- Credit master data changed
- Scoring changed
- Credit limit changed
- Ext. rating changed

Follow-up Activities

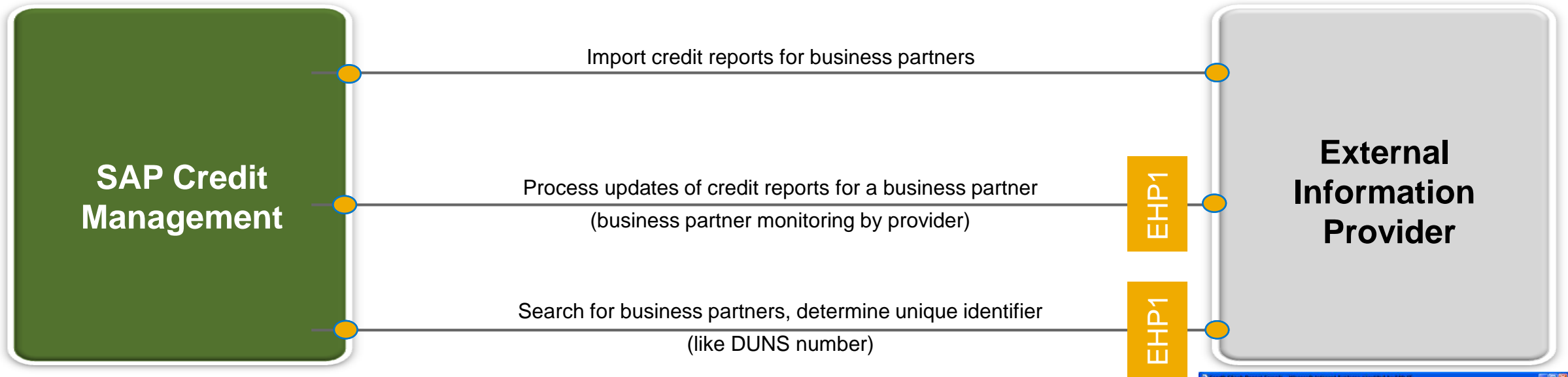
Trigger int. workflow

- e.g. call customer
- e.g. request cash/ down payment
- Trigger ext. applications
- Lock customer account
- Disable service
- Create bill



External Information Providers

Integration with external information providers



- Real-time XML integration of external information providers has been available since ERP 2004
- The integration scenario is extended:
 - Search for business partner's unique identifier
 - Process monitoring updates

*Original XML Document is stored
in the document management
system that is
used by the SAP Business Partner*



Searching for the external ID

1. Find ID

2. Search

ID Search

SearchDat

Rating Procedure: 0EXT1
ID Type: BUP001
BP Number: CMS0000004
SrcType: C

Customer Ratings Provi
Dun & Bradstreet Numb
GCI Consulting GmbH /
Search for Company

Business Name: GCI Consulting GmbH
Legal form: 00.00.0000
Date founded: 00.00.0000

House Number: 63
Street: Untermarktstrasse
City: Dortmund
Region: Germany
Country: DE
Postal Code: 44267

ID Type: ID number
Tax Category: DE0
Tax Number: Germany: VAT Registrat

Telephone Country

Search Result

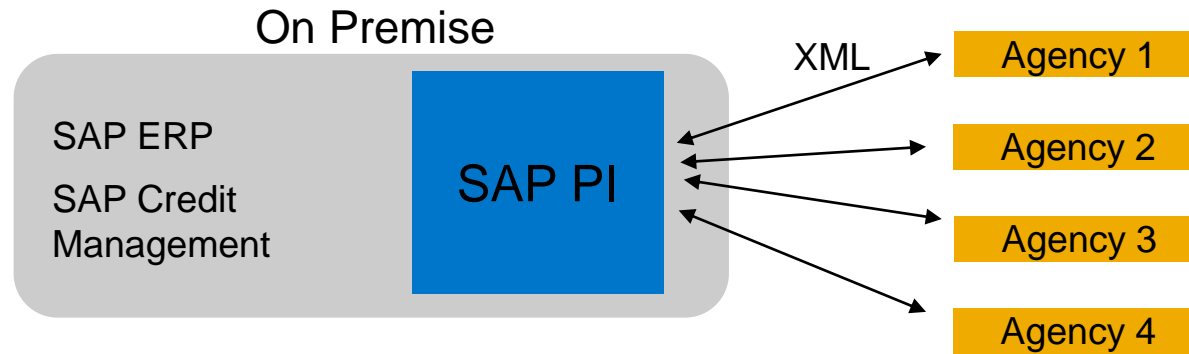
Matching	M...	Search Symbol	Rat. Proc.	ID Type	ID	Business Name	L...	Date founded	Last name	First name	Nam
0	100	0EXT1	BUP001	BUP001		GCI Consulting GmbH					
0	50	0EXT1	BUP001	333061286		GCI Consulting GmbH					
0	25	0EXT1	BUP001	324741719		Olympia Consulting GmbH					
0		0EXT1	BUP001	315225966		Friedrich Freidank GmbH					
0		0EXT1	BUP001	314690173		GEAT-mbH-Gesellschaft					
0		0EXT1	BUP001	330504676		S/H Werkzeuge und					
0		0EXT1	BUP001	329380695		Klopper GmbH & Co					
0		0EXT1	BUP001	315032458		Dreier Werk GmbH					
0		0EXT1	BUP001	343477451		RWE EUROtest GmbH					
0	13	0EXT1	BUP001	314410031		GCI Management GmbH					
0		0EXT1	BUP001	344199505		GCI Consulting GmbH					

The search for an external ID can be triggered directly out of the business partner maintenance in SAP Credit Management

HCP Credit Information

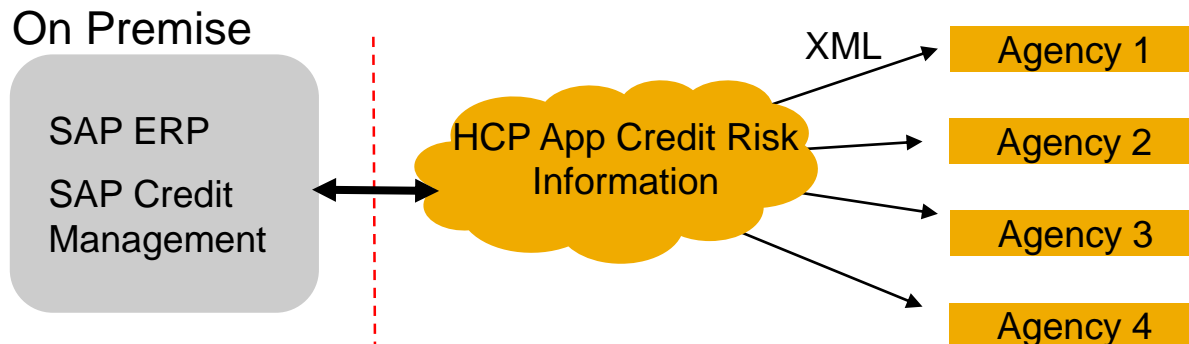
LAB PREVIEW

Current Situation



- Integration of external credit agencies done by the customer / during the implementation project
- Significant implementation effort per interfaces (= per agency)

HCP Solution



- Maintenance of interfaces to credit agencies done by HCP service provider (= SAP)
- Bulk of external credit report data remains in HCP app
- Target data fields (external rating, foundation date,...) transferred to Credit Mgmt for use in scorecard
- SAP customers have a broad choice of external credit agencies
- Reduced TCO and faster ROI for Credit Management projects

Assumptions

- Customer must sign contracts with credit agency directly
- SAP roles remains purely technical; SAP does not own the data; SAP will not use this data for own purposes.
- The HCP Credit Information shall be able to connect to SAP Credit Management releases (down to ERP 6.0)

What's new in S/4 with Simple Logistics?

Historically, SAP had 2 solutions for credit management

	“FI-AR” Credit Management	SAP Credit Management
Master Data	FI-AR Account	SAP Business Partner
FI Data	FI-AR	FI-AR, FI-CA, others
Monitor Credit Exposure	Only for simple system-landscape (1xFI, 1xSD); SAP system only	Distributed system-landscape (multiple FI, SD and CRM systems); SAP and non-SAP
Automated Customer Scoring, Rating, and Limits	Not available	Credit Rules Engine
External Credit Information (e.g. D&B)	Only through partner products	Any XML based credit information service
Workflow	Only in SD	Any credit event, documented credit decisions, credit limit requests
Analysis	Customer fact sheet	Fiori Smart Business / HANA Live; OLAP/OLTP (incl. BW Content)

“Single-system credit checks against a limit you determine”

“Cross-system credit checks against calculated ratings and limits”

Beginning with the simplified logistics processes in S/4HANA, FI-AR credit checks done by base edition of SAP Credit Management*

	Basic S/4HANA Credit Management – technical foundation is SAP Credit Management	SAP Credit Management
Master Data	SAP Business Partner	SAP Business Partner
FI Data	FI-AR	FI-AR, FI-CA, others
Monitor Credit Exposure	Distributed system-landscape (multiple FI, SD and CRM systems); SAP and non-SAP	Distributed system-landscape (multiple FI, SD and CRM systems); SAP and non-SAP
Automated Customer Scoring, Rating, and Limits	Not available	Credit Rules Engine
External Credit Information (e.g. D&B)	Not available in standard	Any XML-based credit information service
Workflow	Documented credit decisions	Any credit event, documented credit decisions, credit limit requests
Analysis	Fiori Smart Business / HANA Live	Fiori Smart Business / HANA Live; OLAP/OLTP (incl. BW Content)

**No additional license required for this basic functionality; if additional functionality required (scorecards, automatic determination of limits, workflow, integration of external credit information, customers must license SAP Credit Management*

Summary

If you have not licensed SAP Credit Management:

You can still do a credit check for sales orders if you migrate to the business partner

You still have to determine what the limit should be in an “offline” process

If you have licensed SAP Credit Management:

No changes

Migration is required from FI-AR credit management to new S/4HANA Credit Management

LAB PREVIEW

Technical implications

Transaction FD32 (“customer credit master”) will not work anymore

Deleted tables include S066 / S067

Customers wanting credit checks in S/4HANA must migrate to SAP Credit Management

SAP migration reports**

Migrate credit accounts from FD32 to UKM_BP (business partner)

SAP Credit Management configuration is automatically created based on existing FI-AR credit configuration data

Credit exposure in FSCM is re-build

Documented Credit Decision (DCD) created for credit blocked sales orders

Benefits to SAP Customers

Easier upgrade from basic credit management functionality to advanced automated credit management processes

HANA-based reporting and analytics

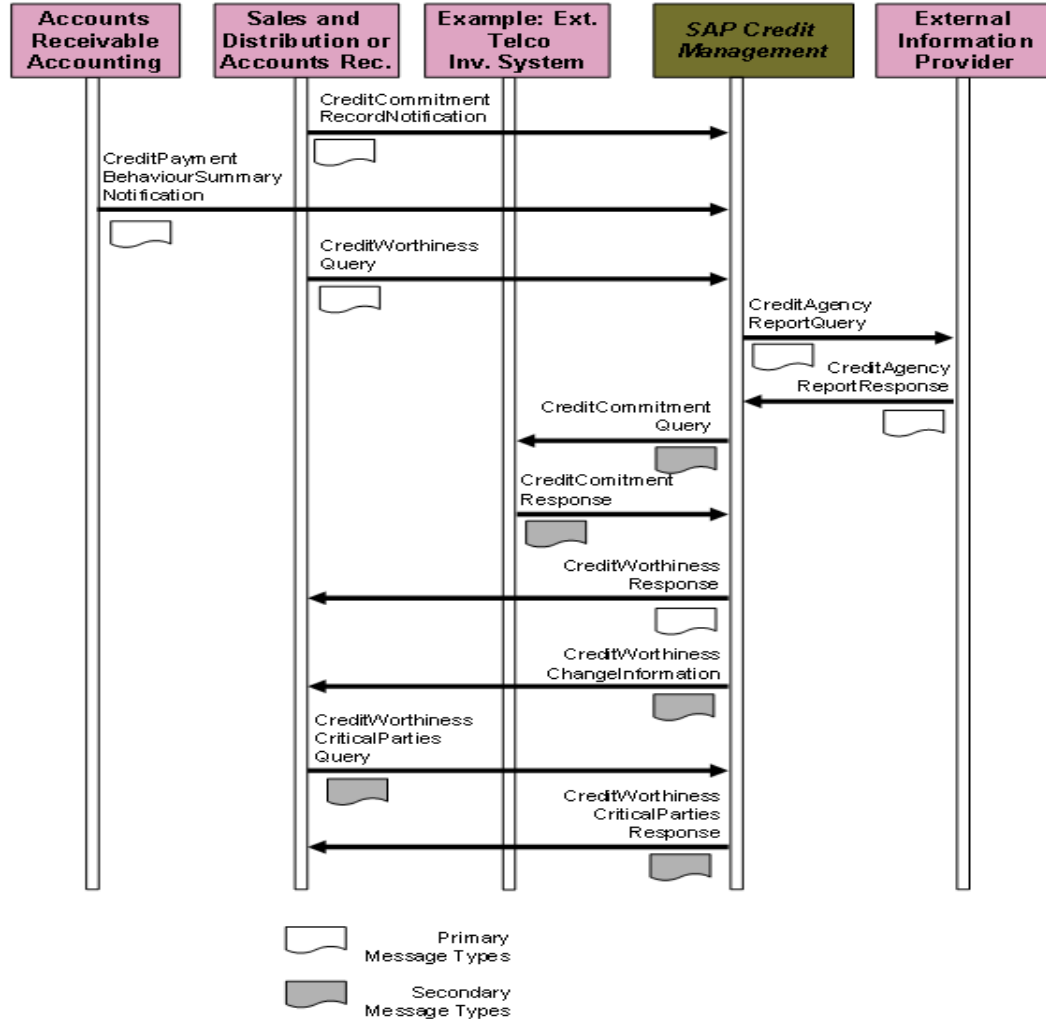
Future Fiori apps for Credit Management**

Principle of one: unified SAP solution means improvements can focus on single product

***planned functionality*

Orchestration of messaging

SAP Credit Management before S/4HANA OP 1511



SAP Credit Management was technically decoupled from SAP ERP

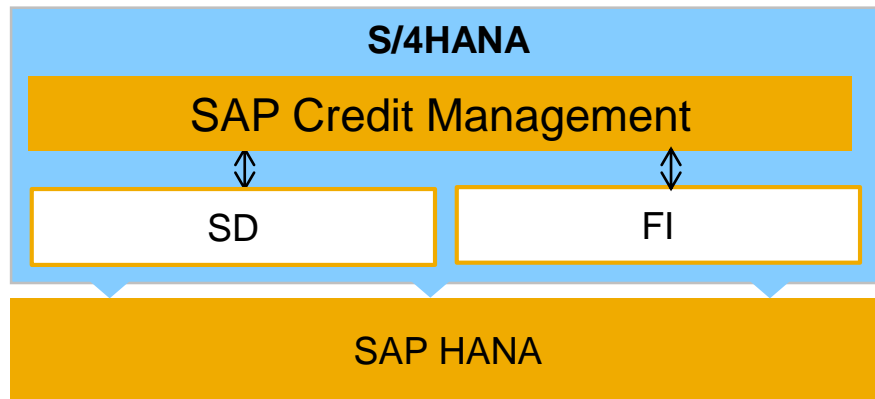
- XML messages are exchanged to update credit commitments (exposure) or to do credit worthiness checks
- This can be facilitated with SAP NetWeaver PI (XI) or WS-RM (since EHP 5 for ERP6.0)

This decoupling allowed for a high degree of flexibility in deployment scenarios; however, the messaging orchestration added technical complexity

Orchestration simplification

SAP Credit Management in SAP S/4HANA Finance OP 1511

One-system landscape: SAP Credit Management and SD in S/4HANA system



SD commitments/exposures (sales orders, deliveries, billing documents) are updated in same LUW (Logical Unit of Work) as the create / update for SD documents

No XML messages / web services are used

No aggregates (table UKM_TOTALS not updated)

Lower TCO, less configuration

Mixed-system landscapes

SD	FI	Technology
S/4HANA	S/4HANA Finance	Migration to SAP Credit Management required; connectivity via PI or WS-RM
S/4HANA	ERP	
ERP	S/4HANA Finance	Use FI-AR Credit Management or SAP Credit Management; connectivity via PI or WS-RM
ERP	ERP	

Streamlining

SAP Credit Management in SAP S/4HANA Finance OP 1511

Elimination of data redundancy*

- No commitment updates are sent from FI-AR to SAP Credit Management
- Instead, a HANA view reads the AR exposure in real-time on the fly when exposure is required in SAP Credit Management
 - For credit-worthiness checks
 - Customer reporting

Use of web-services with generic proxies*

- Lower TCO and reduced configuration effort and lower TCO; no configuration is needed through the SOAMANAGER transaction in this case
 - For credit-worthiness checks
 - For Documented Credit Decision (DCD) creation if sales order is blocked
 - For credit vector / payment behavior updates

Delightful user experience

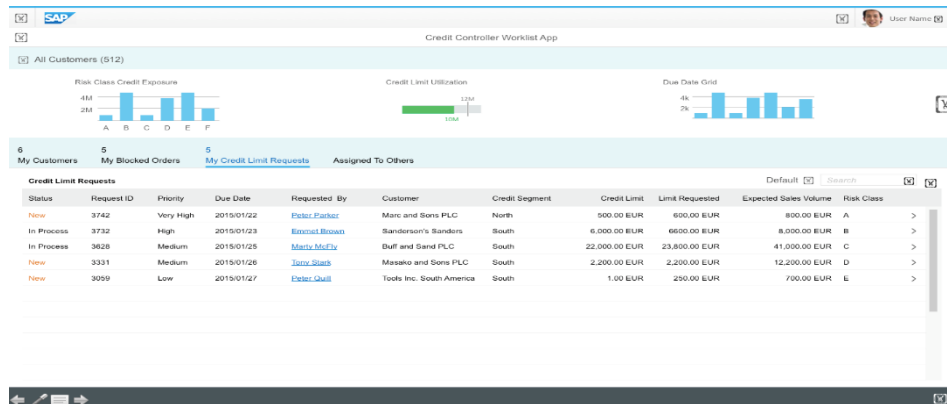
SAP Credit Management in SAP S/4HANA Finance

Credit worklists bring tasks to the user

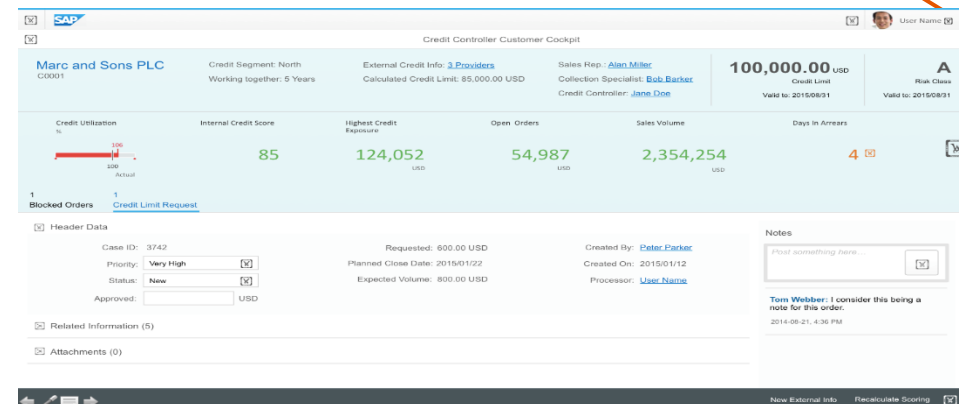
- Blocked credit orders for quick review, unblocking
- Time-based resubmissions, periodic evaluations of customer's creditworthiness
- Processing of requests for new/extended credit limit lines

Analytics focus your attention

- Smart Business analytics for credit limit utilization
- Jump into credit controller cockpit to take action



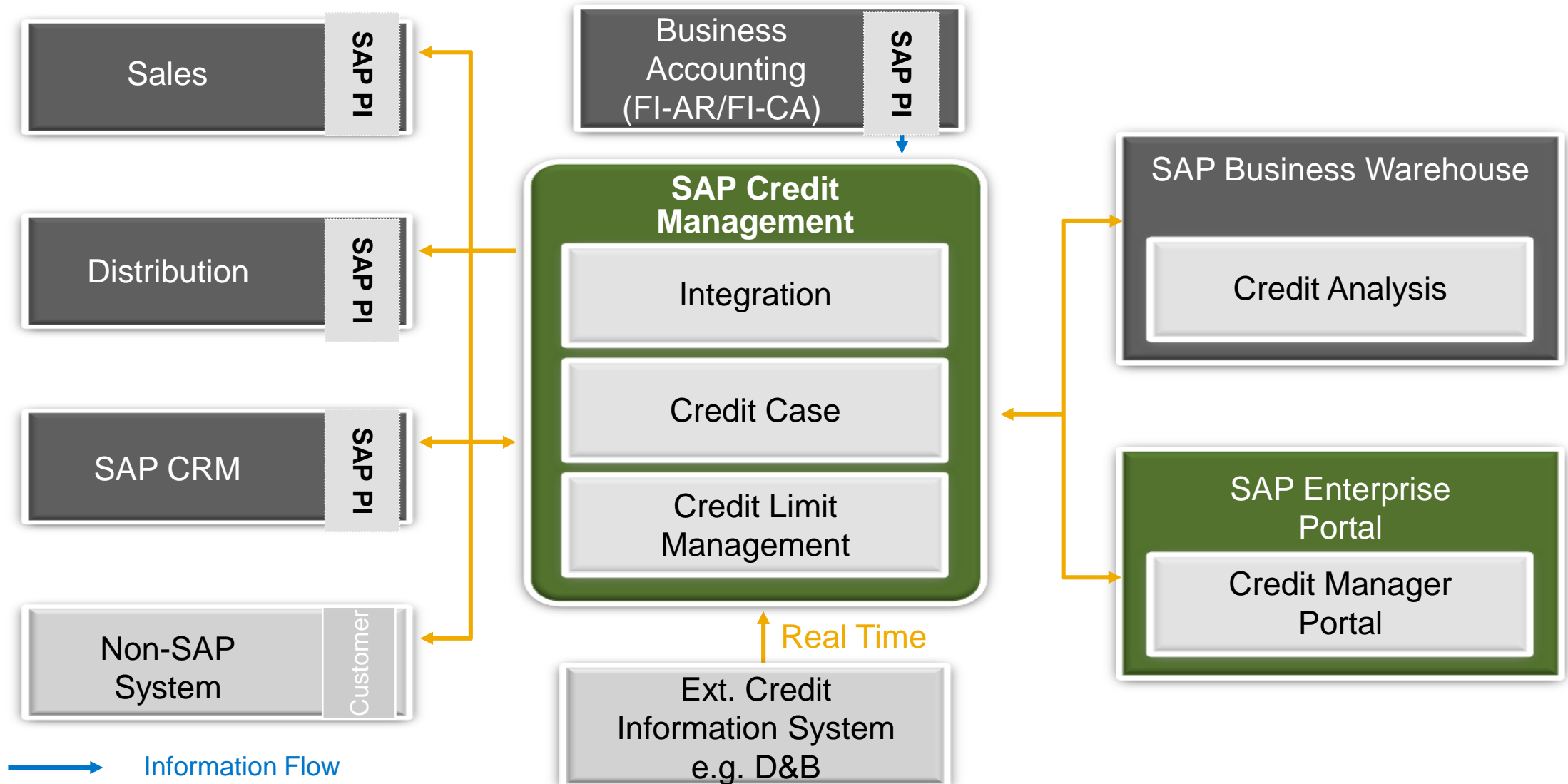
Credit Worklist



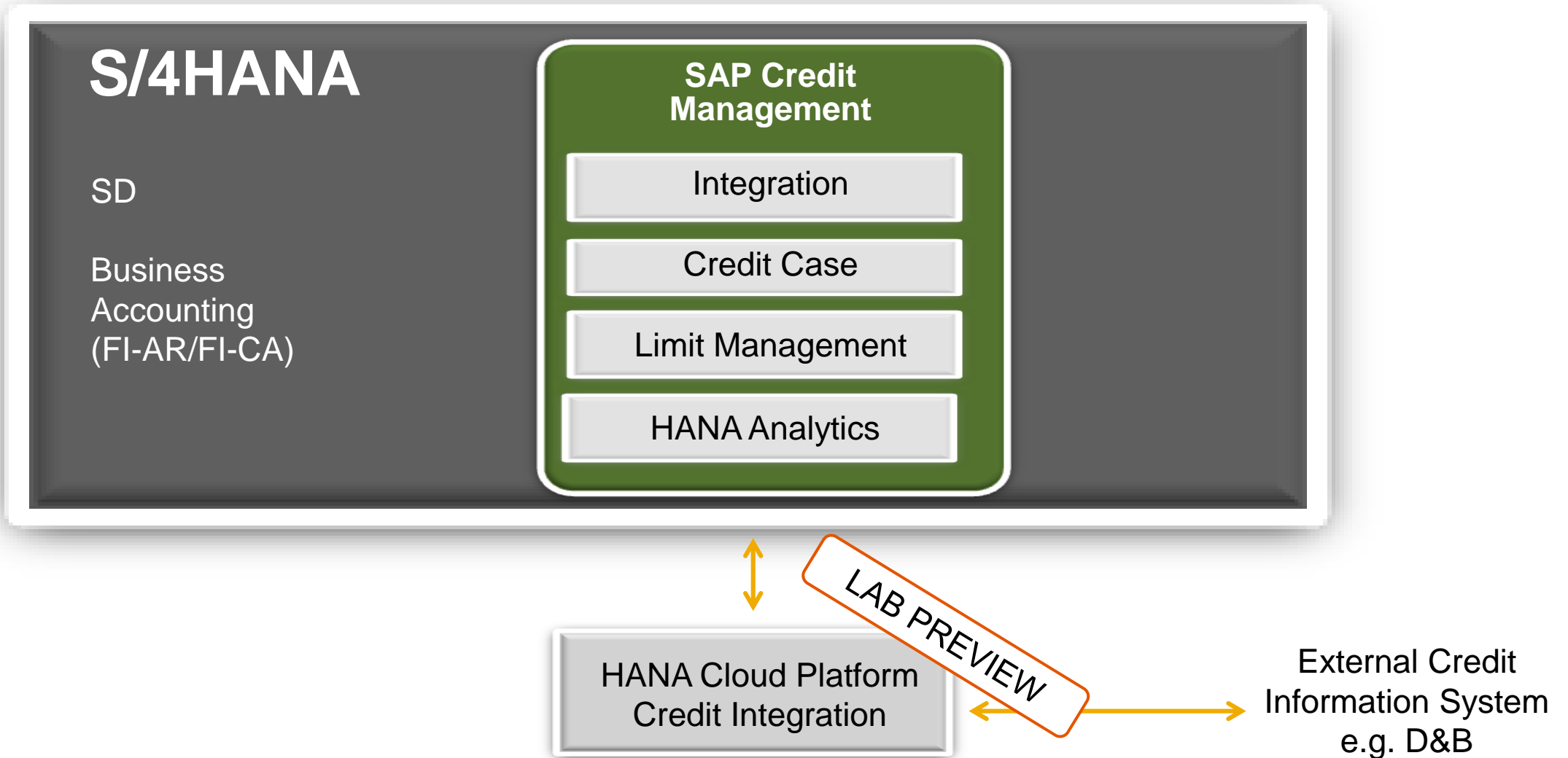
Credit Cockpit

LAB PREVIEW

Architecture – multi-system setup before S/4HANA



Architecture – new S/4HANA options





Summary

Automated, integrated credit evaluation processes with SAP Credit Management in S/4HANA

Automatic credit limit checks

Credit limits checks carried out when entering orders, deliveries, good issues

Documented Credit Decisions create a PDF document snapshot with all details for account team

Real-time customer credit exposures

Integration with Accounts Receivable for exposure details and payment behavior key figures

Reporting in Fiori Smart Business analytics

Any system can be connected

Ongoing scoring of customers

Recalculation based on credit events (new orders, payments, changes in external credit ratings, etc)

Time-based workflow triggers for periodic updates

Workflow support for credit limit requests

Traceability

Change documents, various logs, DCDs ...

10%

Decrease in bad debt write-offs by enforcing global proactive credit management policies

Source: SAP Performance Benchmarking

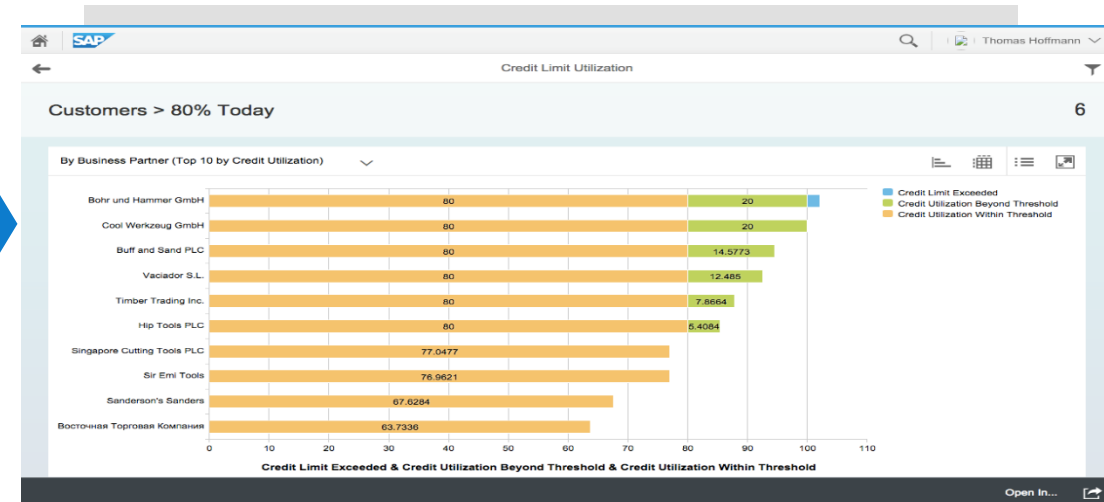
SAP Credit Management – Summary

Customer Challenges

- Takes too long to evaluate credit
- Inconsistent methods and policies
- No global view of exposure
- Evaluations hold up sales orders

SAP Functionality

- Analyze risk and set policy quickly
- Consistent evaluation and policy
- Global view of credit exposure
- Automatically update exposure throughout customer lifecycle



Benefits

- Faster credit decisions
- Lower costs and resource demands
- Reduce bad debt write-offs
- Reduce sales order delays

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- **Jan 28 – “The SD Credit Check is gone!” What is new in Credit Management in S/4HANA**
- **Feb 11 – Tools to Lower DSO**
- **Feb 25 – Deployment and Integration Options: Deeper Dive on HANA Cloud Platform apps and Central Finance**



Thank you

Contact information:

Katharina.Reichert@sap.com