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DAT	BID	ASK	PRO	QUA
JAN	€ 942,00	€ 948,00	€ 820,00	↗
FEB	€ 685,00	€ 920,00	€ 784,00	↙
MAR	€ 993,00	€ 604,00	€ 934,00	↗
APR	€ 228,00	€ 202,00	€ 555,00	↗
MAY	€ 468,00	€ 685,00	€ 386,00	↙
JUN	€ 609,00	€ 963,00	€ 974,00	↗
JUL	€ 617,00	€ 240,00	€ 575,00	↙
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A photograph of a band performing live music on stage. In the foreground, a man with glasses is singing into a microphone and playing a trumpet. Behind him, another man is playing a saxophone. The stage is lit with bright, colorful lights, creating a vibrant atmosphere. The background is slightly blurred, focusing on the musicians.

SAVE THE DATE: 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	Head of Corporate Reporting	Corporate Treasurer	Head of Finance Operations	Chief Compliance Officer
Financial Planning & Analysis	Accounting & Financial Close	Treasury & Financial Risk Management	Finance Operations	Enterprise Risk & Compliance Management
Strategy Development and Translation	Accounting	Payments and Bank Communications	Receivables Management	Enterprise Risk Management
Planning, Budgeting and Forecasting	Entity Close	Cash and Liquidity Management	Invoice Management	Controls and Compliance Management
Profitability and Cost Management	Corporate Close	Debt and Investment Management	Travel Management	International Trade Management
Monitoring and Reporting	Reporting and Disclosure	Financial Risk Management	Real Estate Management	Fraud Management
	Financial Close Governance	Commodity Risk Management	Financial Shared Services	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



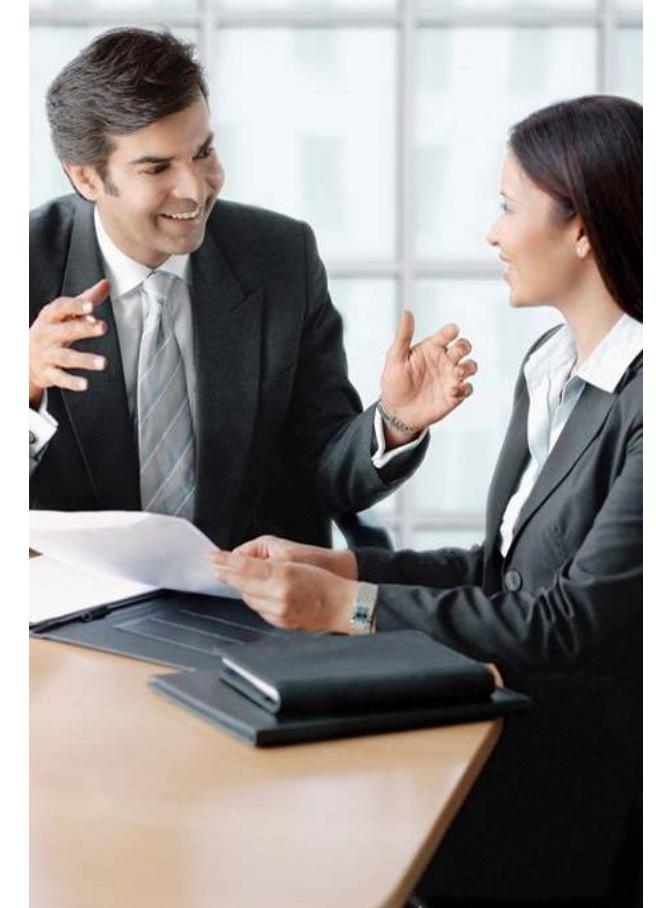
0.3%

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

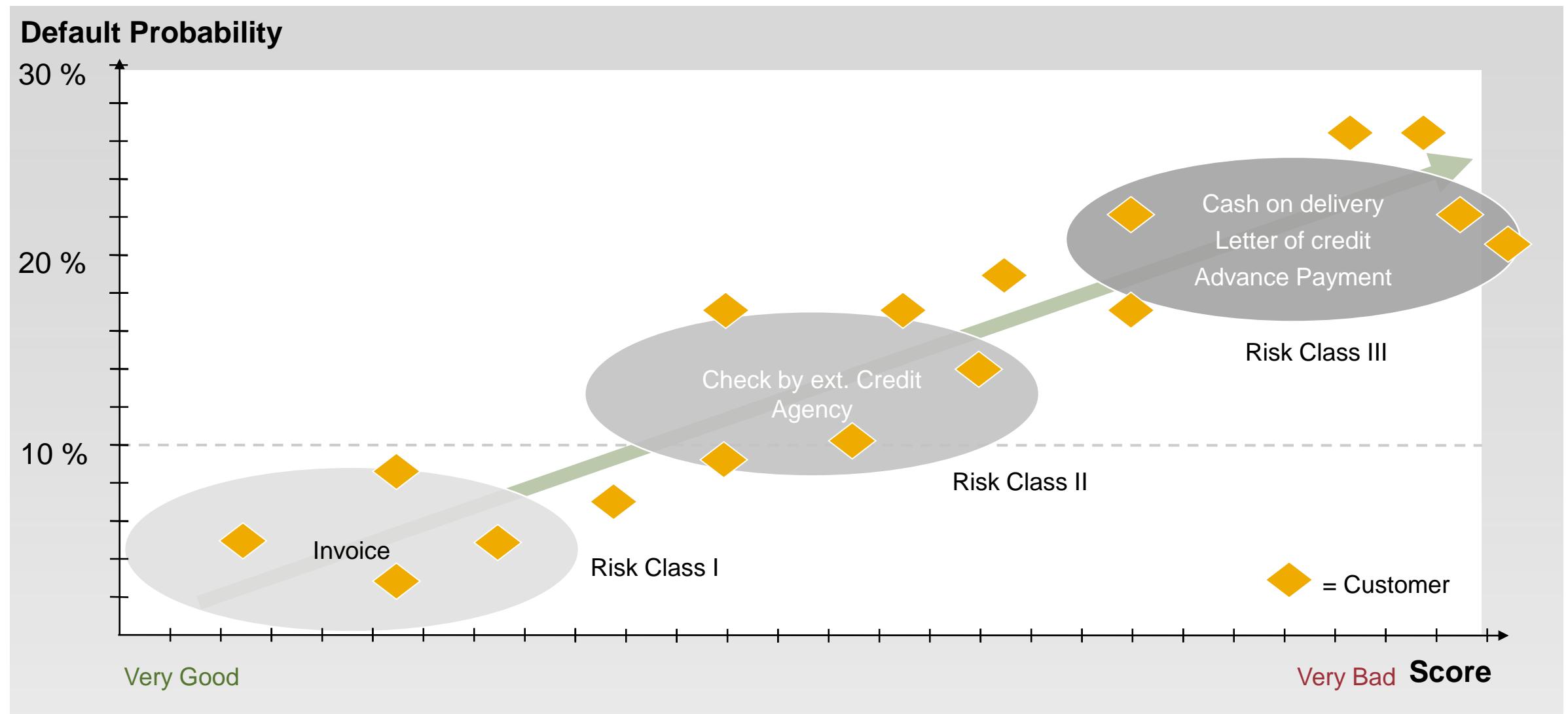
Source: ASUG Benchmarks

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



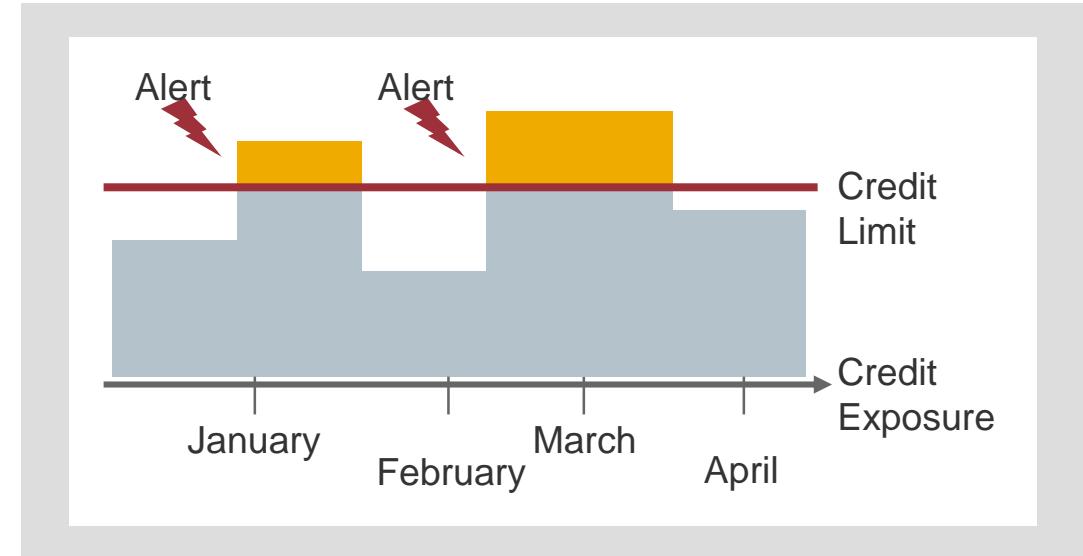
Default probability determines customer treatment



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

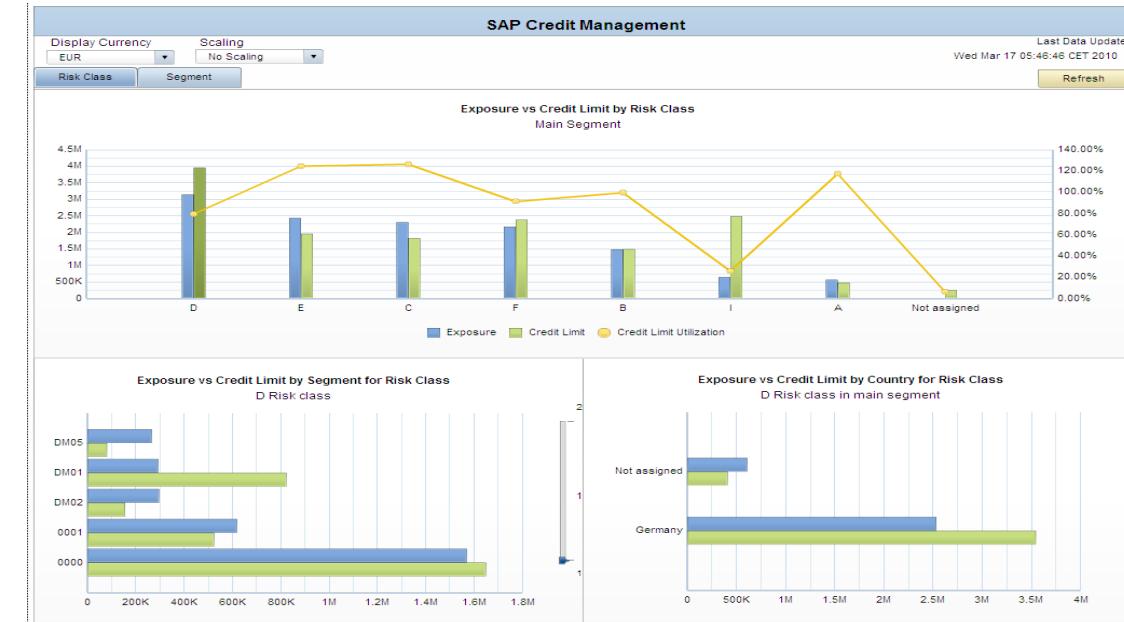
Traceability

- Change documents, various logs, ...

In releases before SAP HANA, Xcelius 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

The screenshot shows the SAP Credit Management interface for a business partner named SCOTT. The main window displays the 'Identification' tab of the business partner card. A yellow callout box labeled 'Credit Check Rule:' points to the 'Check Rule' section, which contains the rule 'Z10 Default - all credit checks active'. Another yellow callout box labeled 'Scoring Rule:' points to the 'Scoring' section, which shows the rule 'Rule for New Business Customers' and the score '23'. A third yellow callout box labeled 'External Rating from D&B' points to the 'External Credit Information' table, which lists a rating record for D&B CAP with a rating of '2A2' and a trend of '+ Positive'.

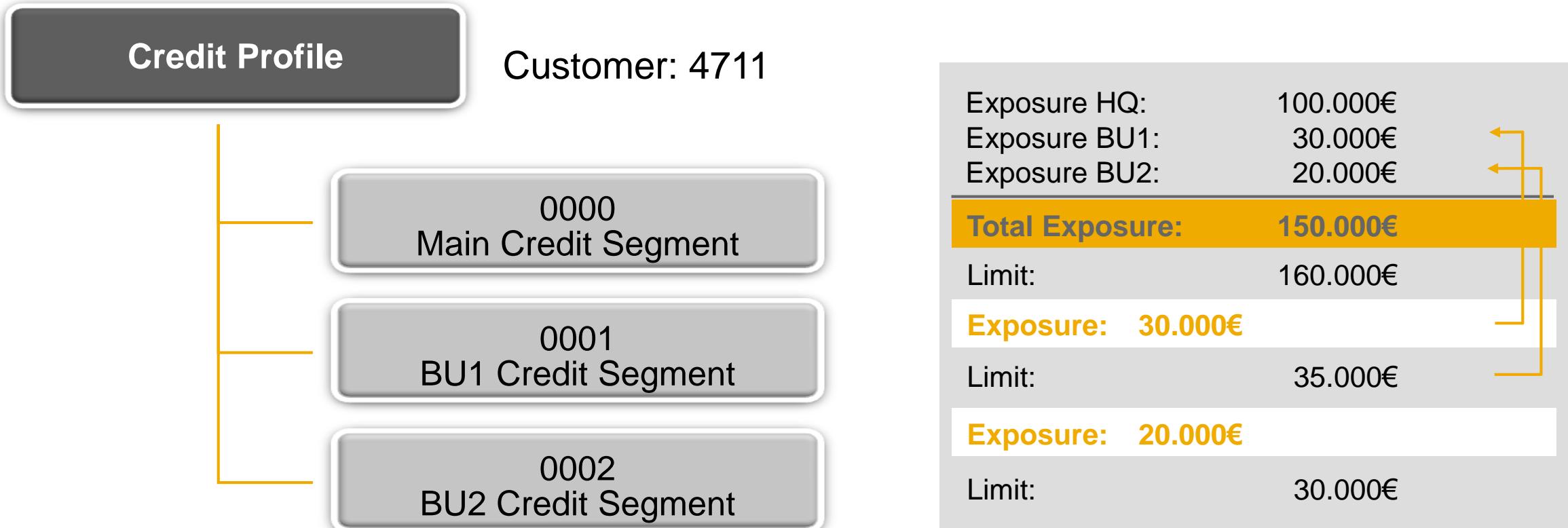
Credit Check Rule:
Rules that define how a customer is credit checked (e.g. static / dynamic check, oldest open item ...)

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

External Rating from D&B

Rating Procedure	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

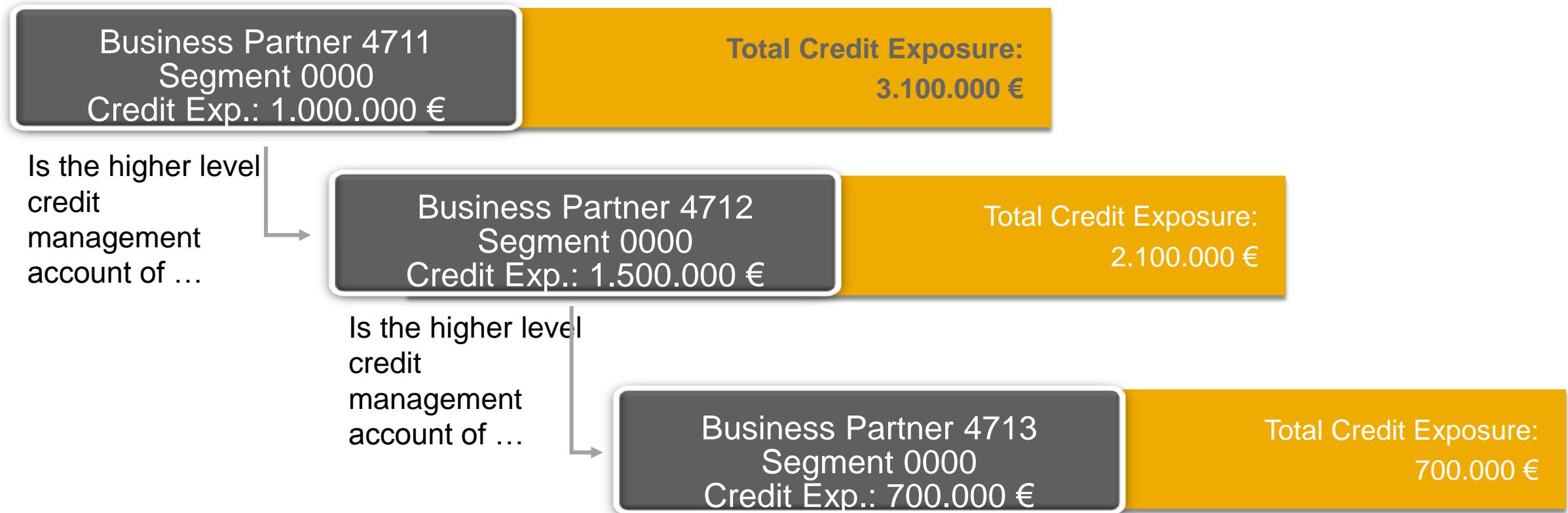


Customizing: Credit Segment 0001 + 0002

Contribute to Main Credit Exposure

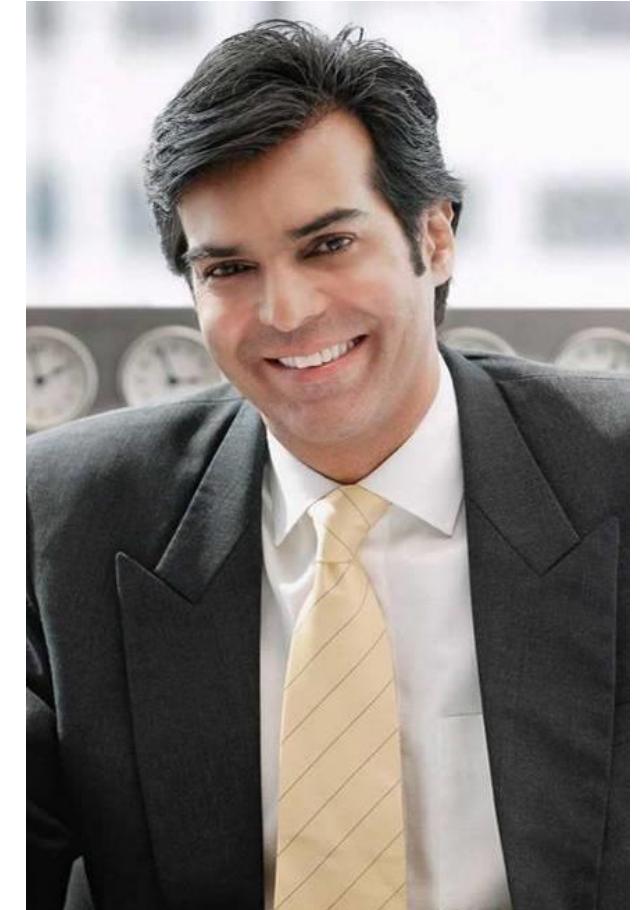
Relationships

Higher-level credit management account of ...

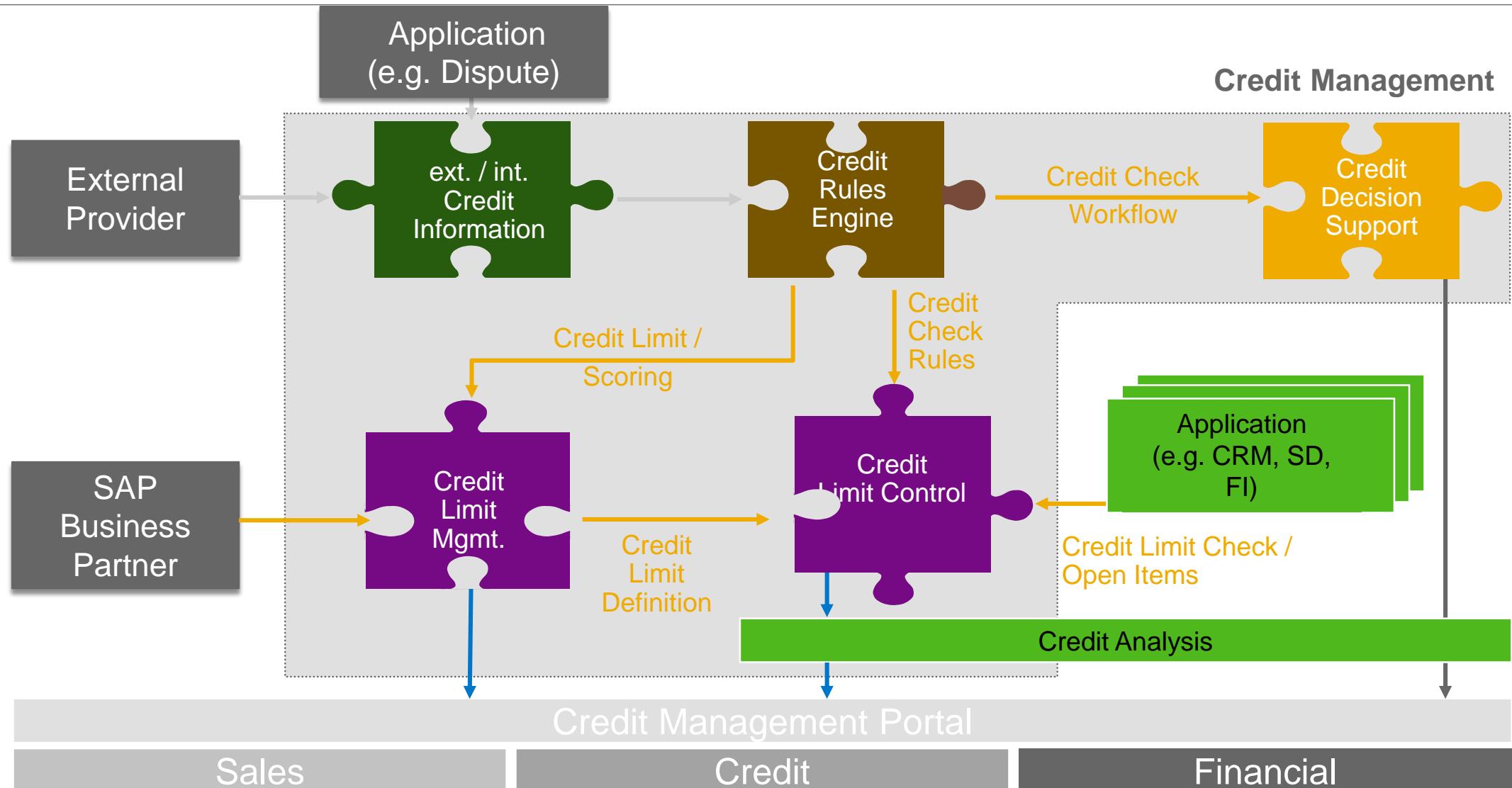


Credit rules engine

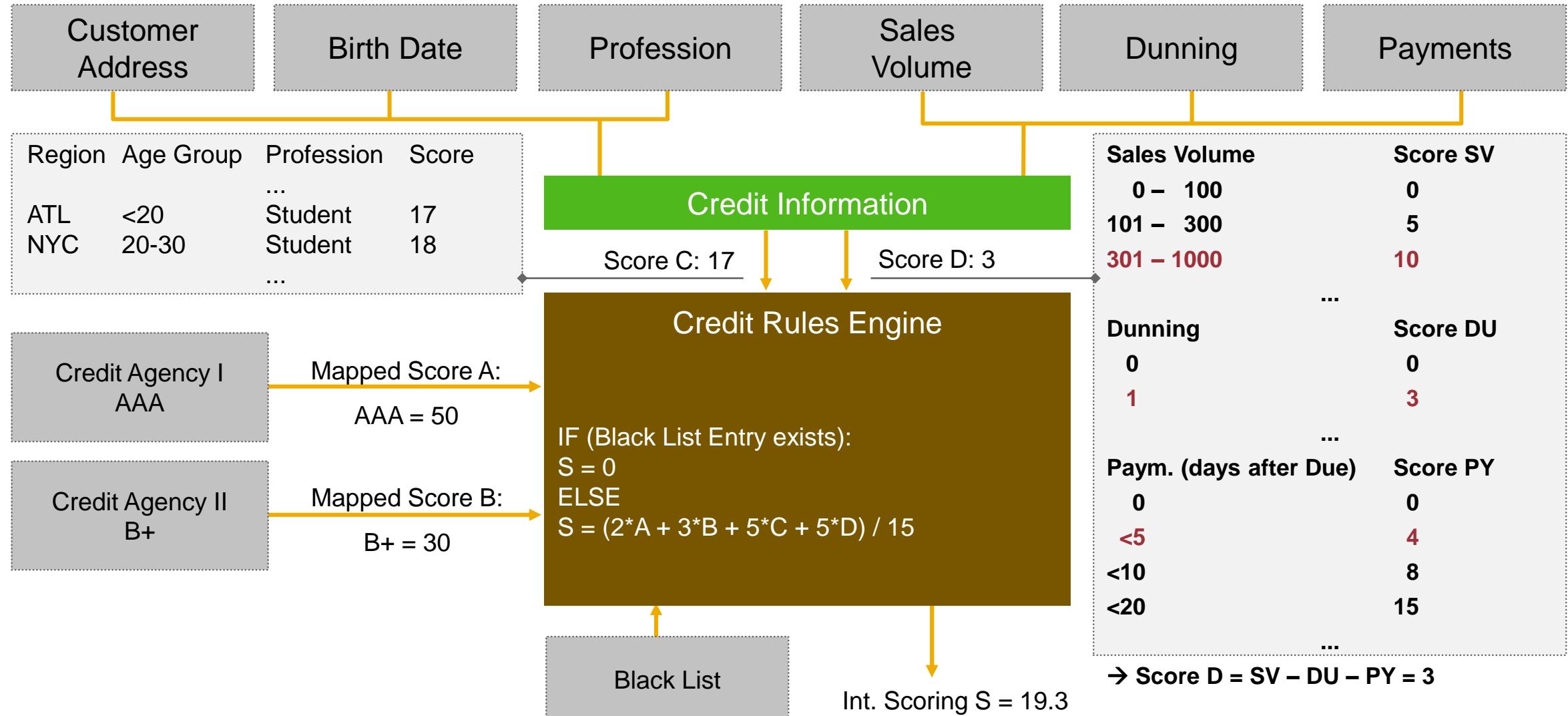
- Create a **scoring formula** and **credit limit formula** by using the **formula editor**. Parameters (for example, business partner data) and functions are used as input parameters.
- One scoring formula and several credit limit formulas (for each credit segment) are assigned to the rule for scoring 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)



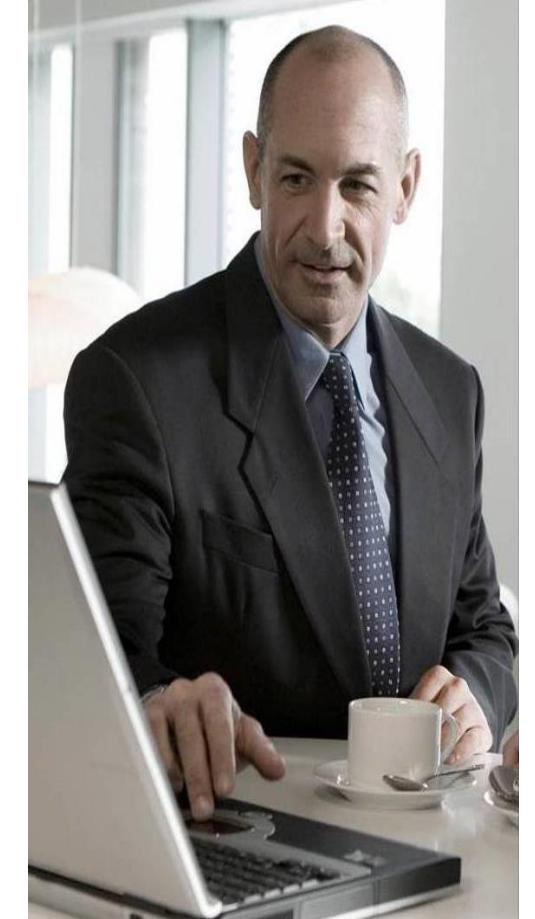
Scoring formula

- 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



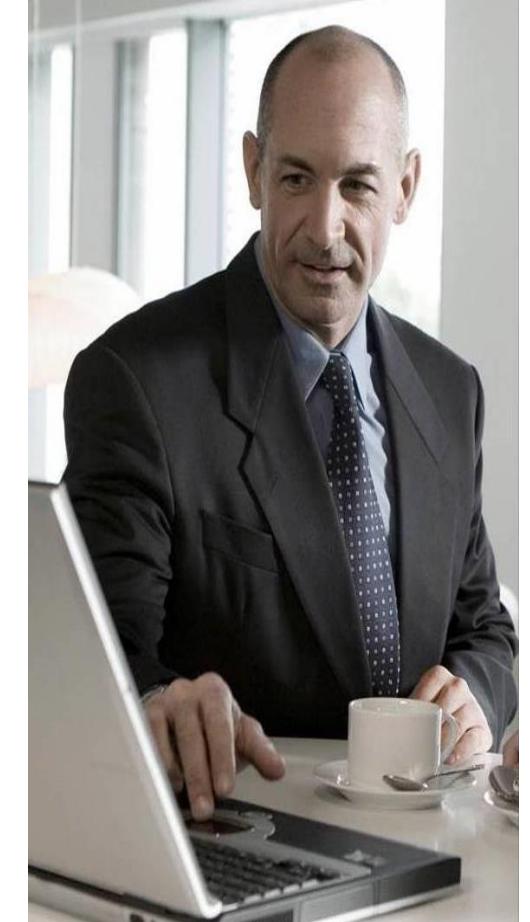
Credit limit formula

- 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

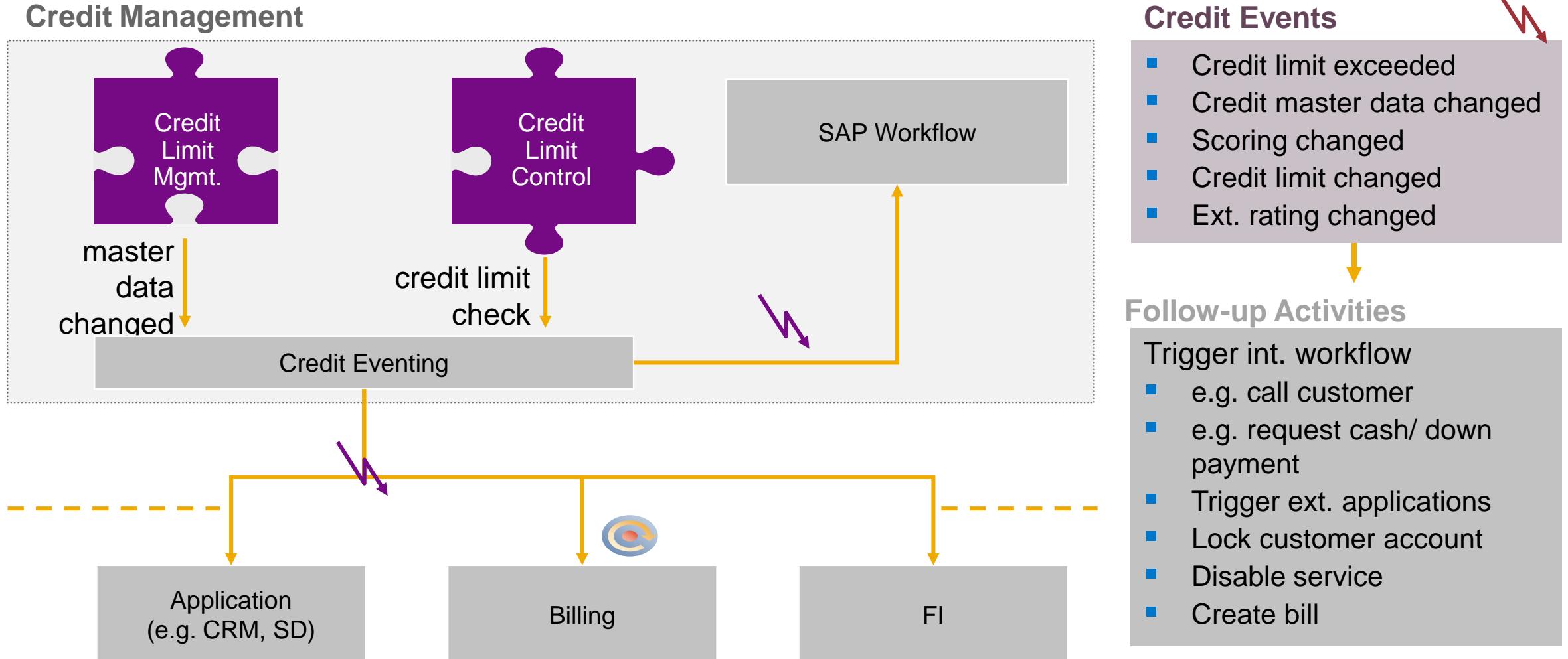


Credit checking rules

- The check rule determines the steps that are taken to check the creditworthiness 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)



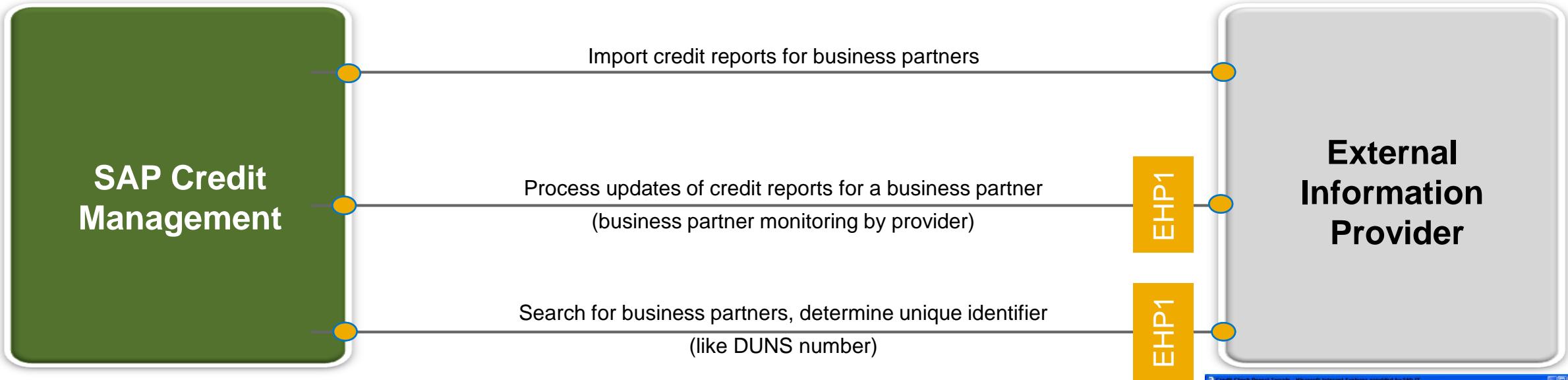
Credit eventing





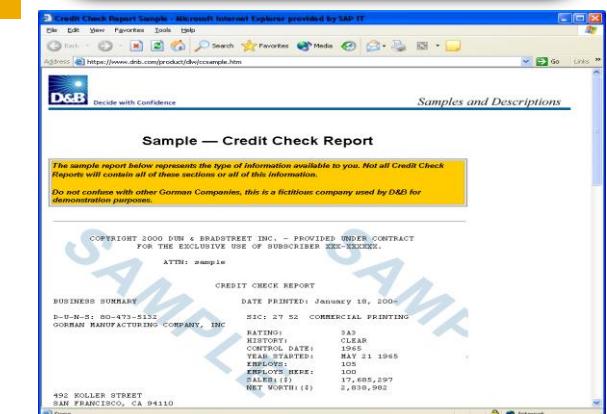
External Information Providers

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

The screenshot illustrates the process of searching for an external ID within the SAP Credit Management system. It consists of two main windows: the 'Change Organization' screen and the 'ID Search' screen.

1. Triggering the search: In the 'Change Organization' screen (left), a yellow box highlights the 'Find ID' button. An arrow points from this button to the 'ID Search' screen (right).

2. Result of the search: The 'ID Search' screen displays a list of search results. The results table has the following columns: Matching, M..., Search Symbol, Rat. Proc., ID Type, ID, Business Name, L..., Date founded, Last name, First name, and Name. The results show various companies and their corresponding external IDs and ratings.

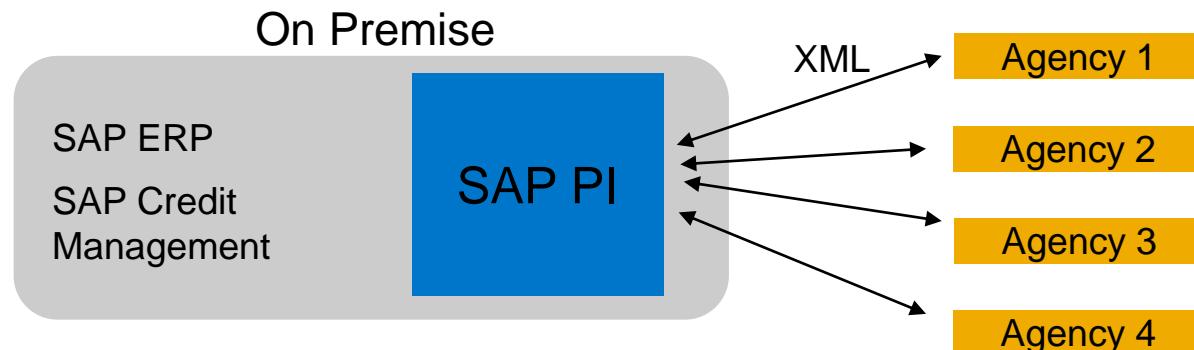
Matching	M...	Search Symbol	Rat. Proc.	ID Type	ID	Business Name	L...	Date founded	Last name	First name	Name
0	100	0	0EXT1	BUP001		GCI Consulting Gmb					
0	50	0	0EXT1	BUP001	333061286	GCI Consulting Gmb					
0	25	0	0EXT1	BUP001	324741719	Olympia Consulting G					
0	0	0	0EXT1	BUP001	315225966	Friedrich Freidank Gr					
0	0	0	0EXT1	BUP001	314690173	GEAT-imbH-Gesells					
0	0	0	0EXT1	BUP001	330504676	SVIH Werkzeuge und					
0	0	0	0EXT1	BUP001	329380695	Kloepfer GmbH & Co					
0	0	0	0EXT1	BUP001	315032458	Dreier Werk GmbH					
0	13	0	0EXT1	BUP001	343477451	RWE EUROtest Gese					
0	0	0	0EXT1	BUP001	314410031	GCI Management Co					
0	0	0	0EXT1	BUP001	344199505	GCG Consulting Gro					

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

HCP Credit Information

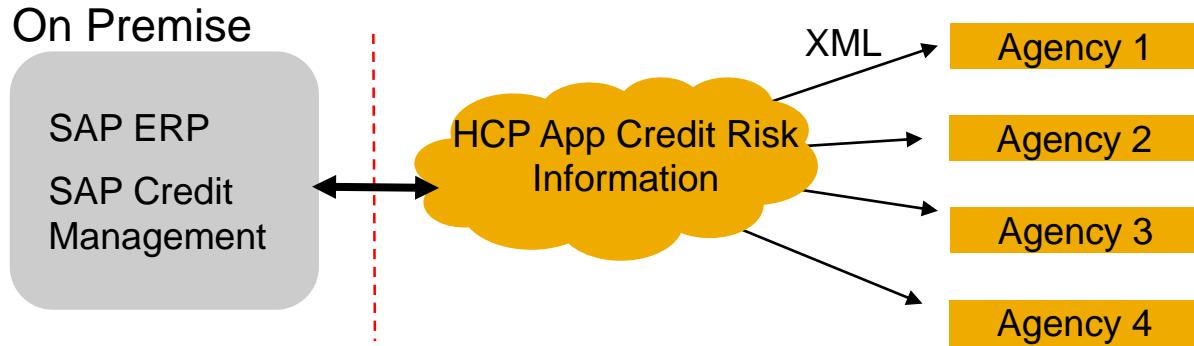
LAB PREVIEW

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 rebuild

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

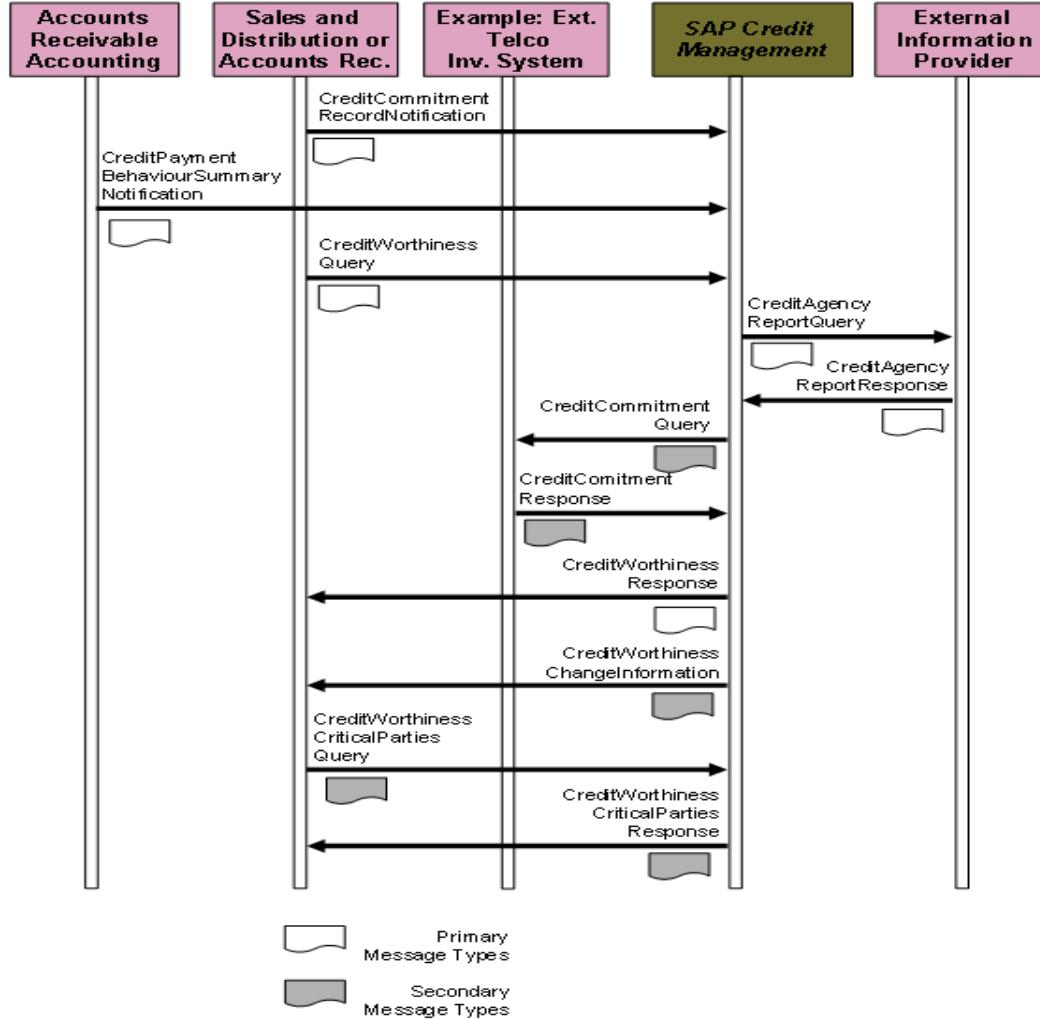
Future Fiori apps for Credit Management**

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

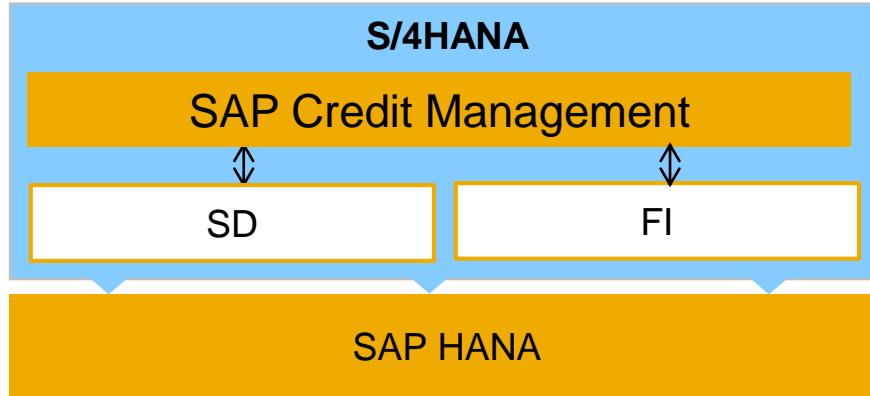
- XML messages are exchanged to update credit commitments (exposure) or to do credit worthiness checks
- This can be facilitated with SAP NetWeaver PI (XI) or WS-RM (since EHP 5 for ERP6.0)

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

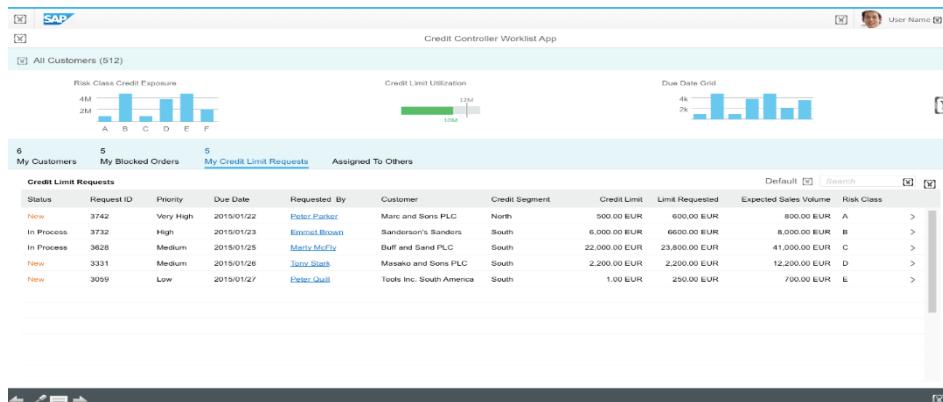
SAP Credit Management in SAP S/4HANA Finance

Credit worklists bring tasks to the user

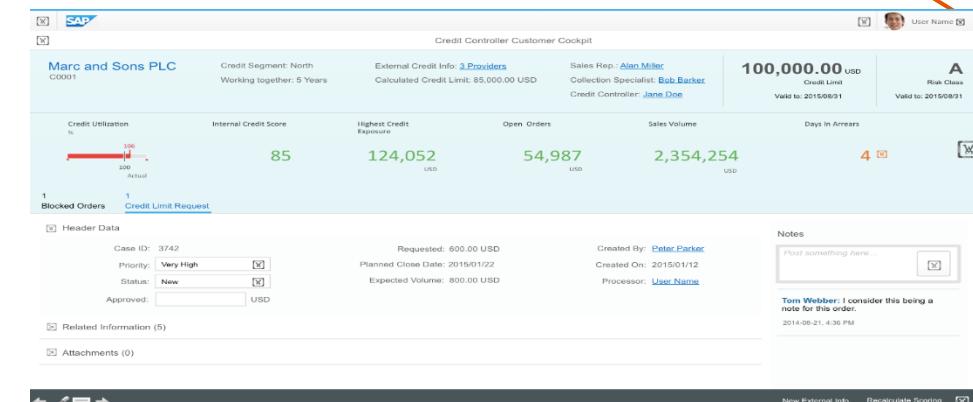
- Blocked credit orders for quick review, unblocking
- Time-based resubmissions, periodic evaluations of customer's creditworthiness
- Processing of requests for new/extended credit limit lines

Analytics focus your attention

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

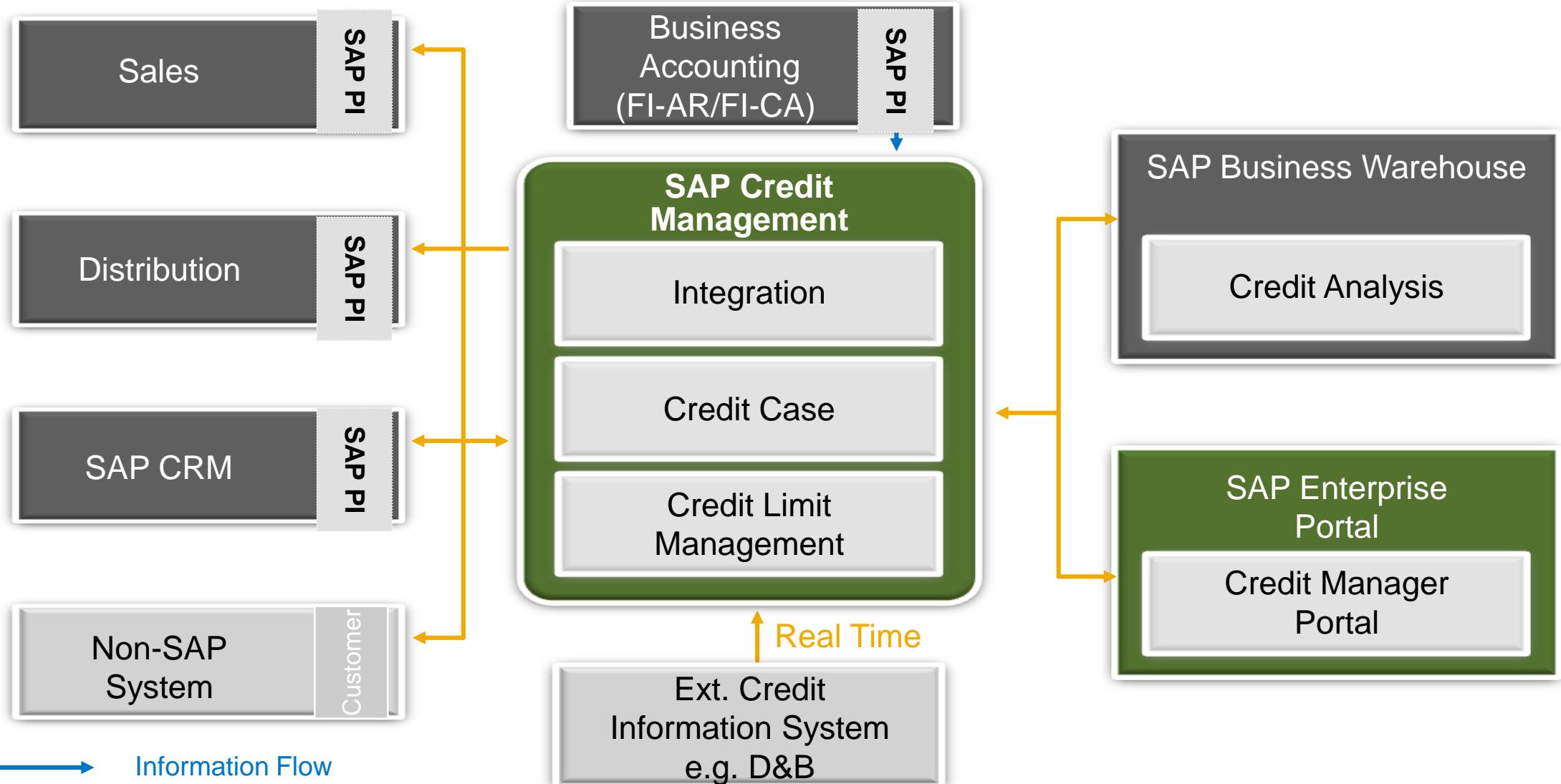


Credit Worklist

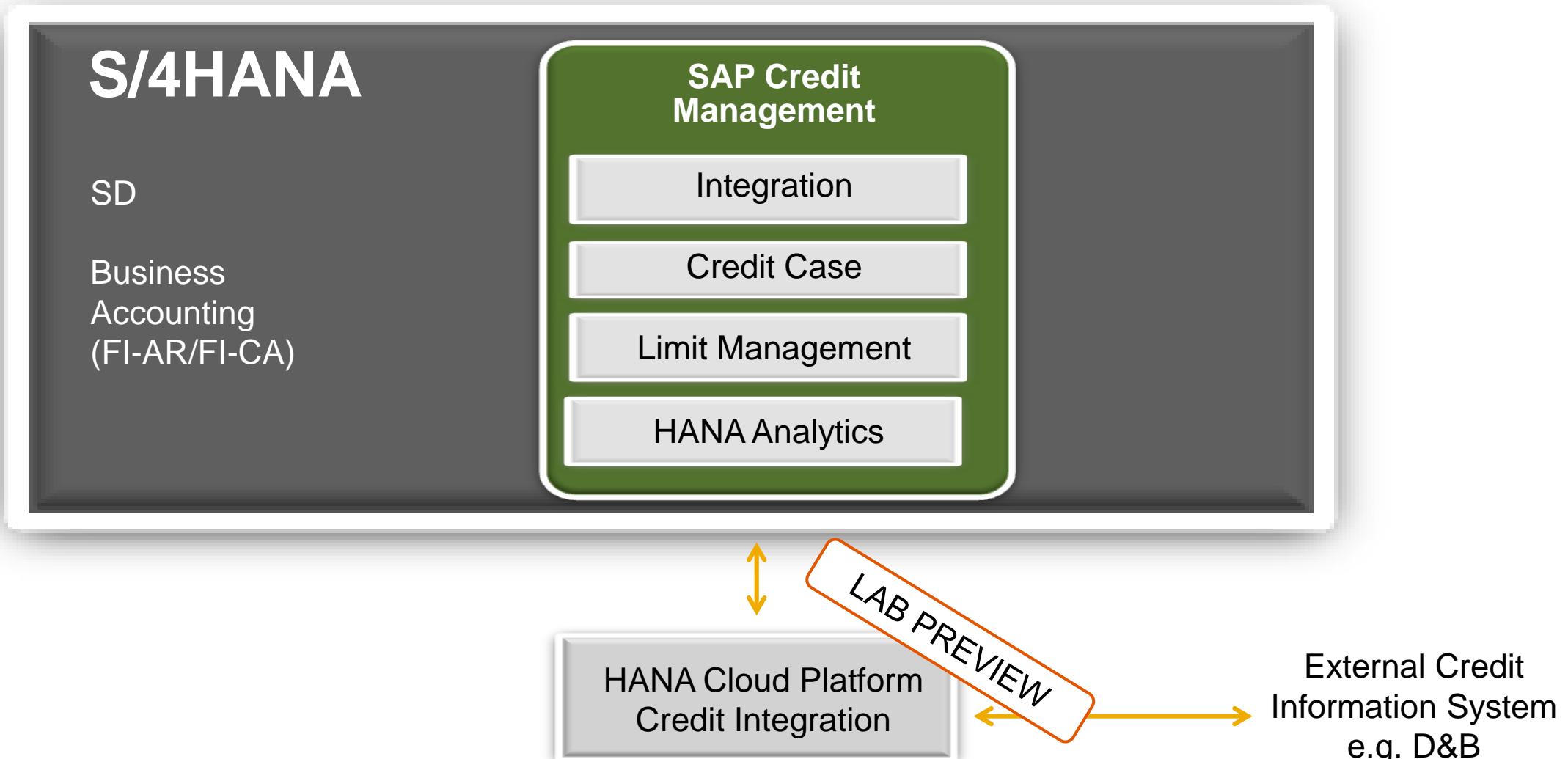


Credit Cockpit

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

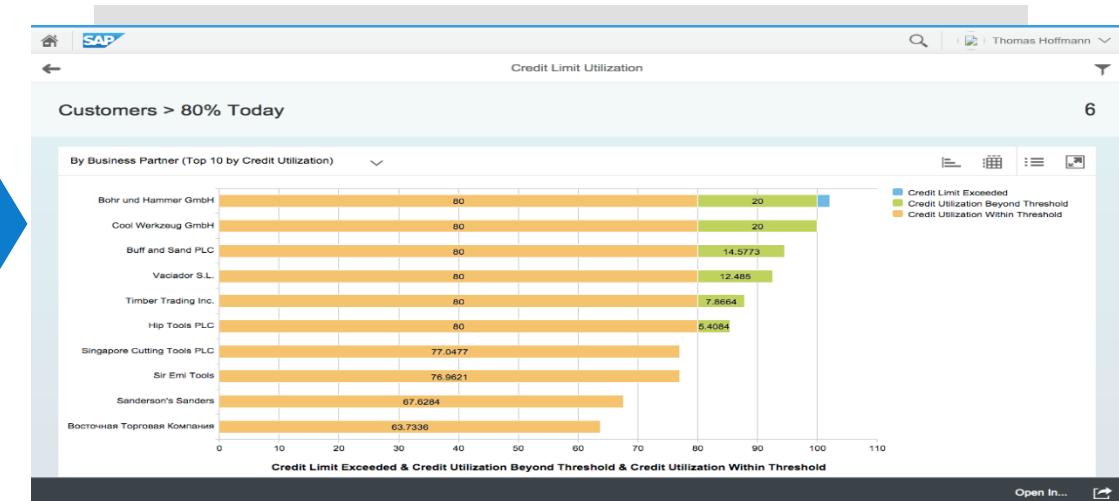
SAP Credit Management – Summary

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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- **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