Every Angle

# Product Roadmap Session
# 16 Nov 2011, Blijdorp Zoo Rotterdam

Bart van Dongen, CTO
Ferry van Genderen, Head of development
Mike Hoksbergen, Software Development Partner EA HR
Hans Veltman, Product Manager

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Gartner | 2011
COOL VENDOR

# Agenda

- Introduction (Hans Veltman)
  - The big picture: 2009-2013
  - Your scores in 2010
- Product development in 2011
  - GUI and FiCo (Hans Veltman)
  - Server and Extractor (Bart van Dongen)
- The plans for 2012 and after
  - 64 bits, New architecture (Ferry van Genderen)
  - HRM (Mike Hoksbergen)
  - HANA, Calculated fields, MAC & Web clients (Hans Veltman)
- Your scores for selected topics

# The big picture: 2009-2013

**2009**
Unicode
Statuses
Long texts
Partner roles
Personal favorites
Batch where used

**2010**
Cubes
Bucketing
Wild cards
DSO / DPO
Classifications
Advanced configs
Field chooser Icons

**2011**
New FiCo
Pivot table
SQL support
ZEA03 & iPad
RFC download
Multi column sort
Unlimited objects
SAP login groups
Improved security
Remove old angles
EADashboard Engine
New scheduling engine
Field chooser in matrix

**2012**
64 bits
APO
Calculated fields
Automated Clients
ODBC read & write
Better use multi-CPU

**Future**
HANA
Web clients
System mgmt rebuild
Functional: AFS, HRM
Output 2 multiple targets
Input form multi sources

# The scores in 2010, and what we did with it

| | Prio | Status |
|---|---|---|
| **Usability and ease of use** | | |
| Multi column sort in list | 3 | Done |
| SAPclient: ZEA03 extensions | 5 | Done |
| Cube extensions | 15 | Done, more to come |
| Field chooser extensions | 16 | Done |
| **Extension of SAP systems and modules** | | |
| SAP systems: APO, CRM, SRM | 1 | Done, more to come |
| Modules: FiCO, COPA, HR, GRC | 6 | Done, more to come |
| SAP portal | 7 | Under construction |
| **The EADashboard Engine** | | |
| Combine data sources | 2 | Done, more to come |
| **Volume handling and speed** | | |
| Enhanced scheduling in extraction process | 4 | Done |
| 64 bits architecture | 12 | Under construction |
| **Every Angle support tooling** | | |
| Automated client / Angle 2 inbox | 10 | Under construction |
| **System configuration** | | |
| User defined objects & tables | 8 | Not started |
| Pick list for Change documents | 13 | Not started |
| Pick list for price conditions | 17 | Not started |
| **System management** | | |
| Gui for user management | 11 | Under construction |
| Reporting on usage (Users/Angles/Objects) | 14 | Under construction |
| **System Stability, reliability & consistency** | | |
| Various SAP consistency issues | 9 | Done, continuous process |

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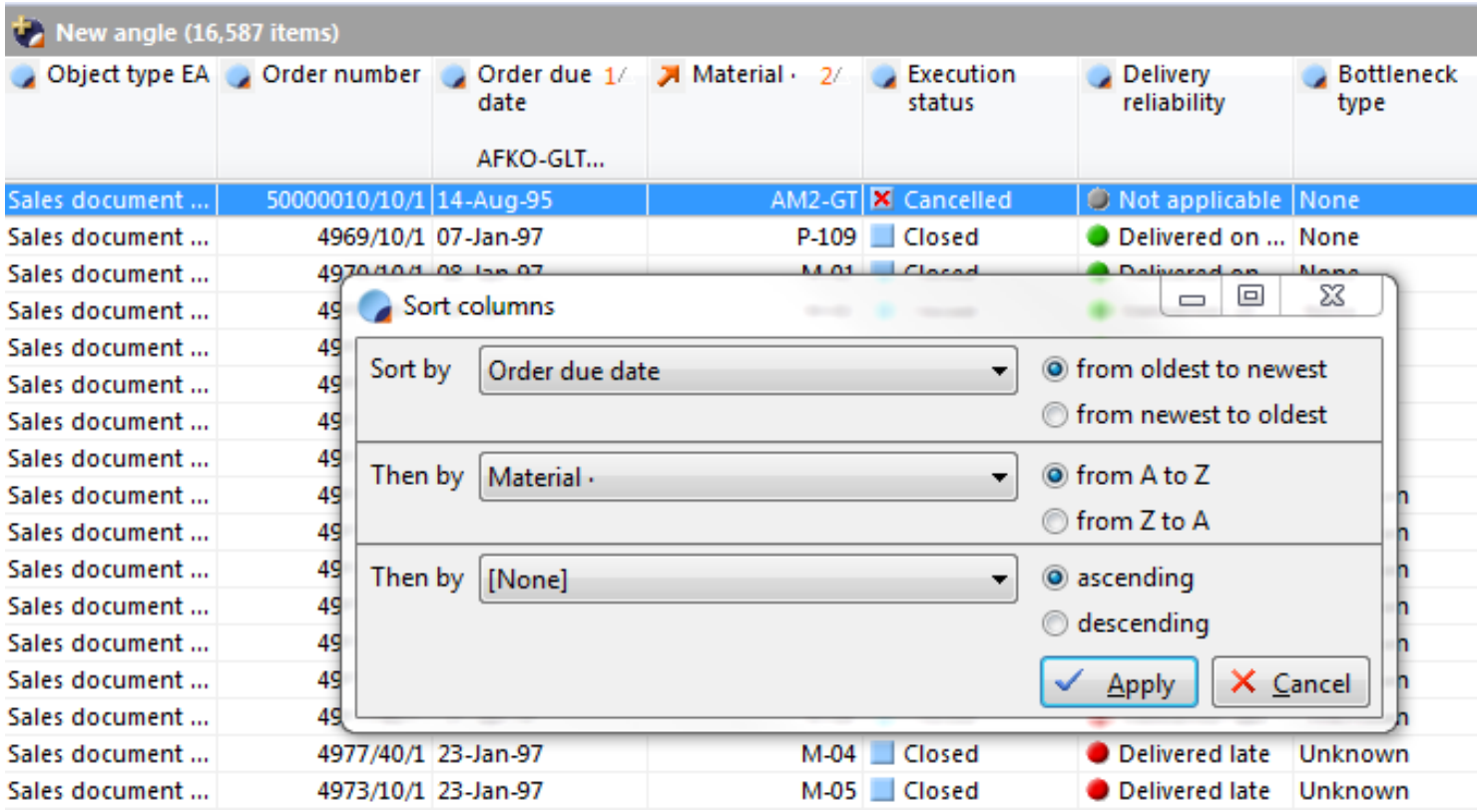
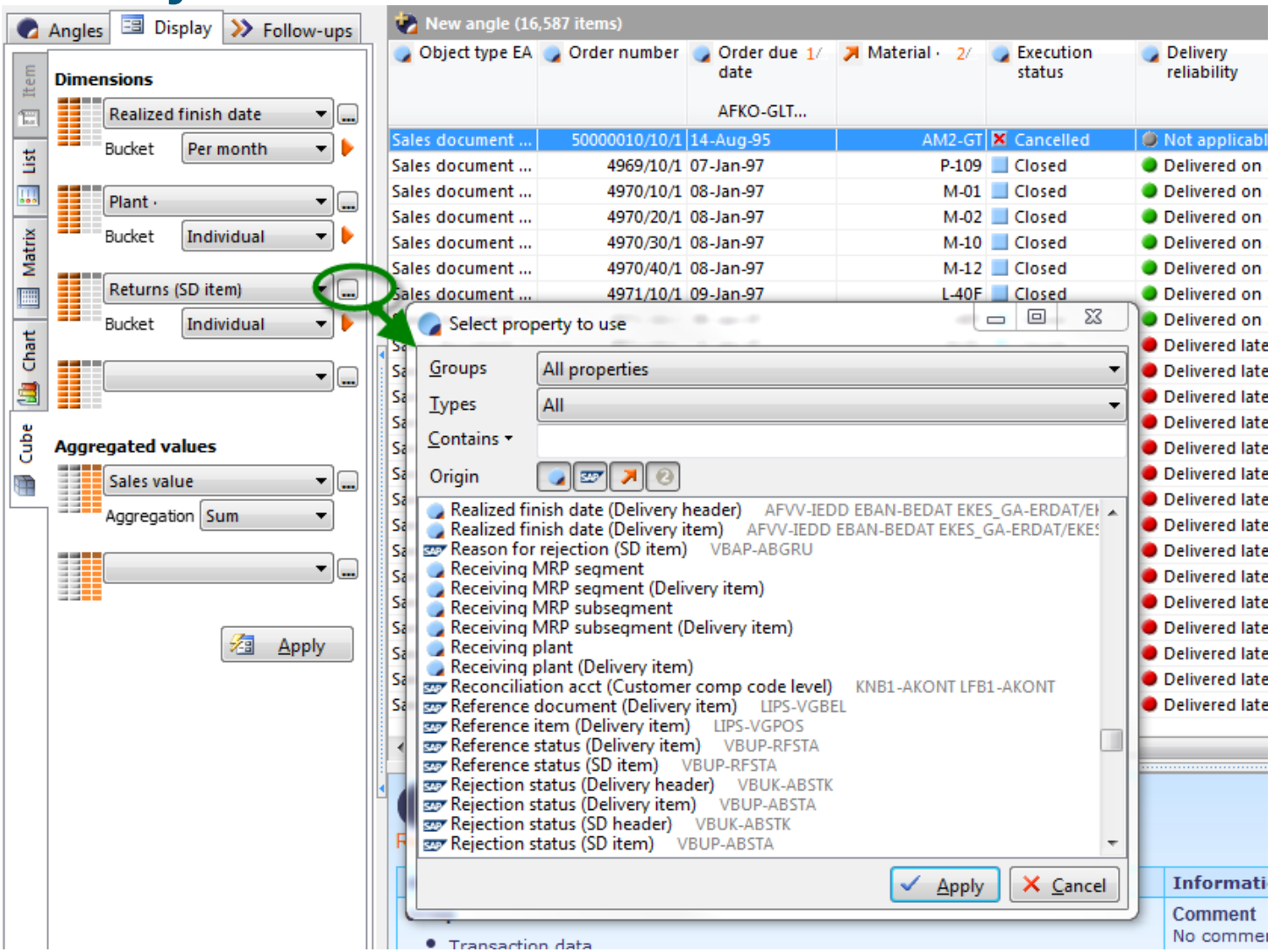
# Realized in 2011: Usability and ease of use

- Quick filters via right-mouse button
- Multi column sort
- Pivot
- Field chooser in cube
- Field chooser: ‘lost fields’
- Charts on iPad
- Drill-down ZEA03
- FiCo: payment status
- FiCo: overdue payment status
- FiCo Vendor and Customer analytics

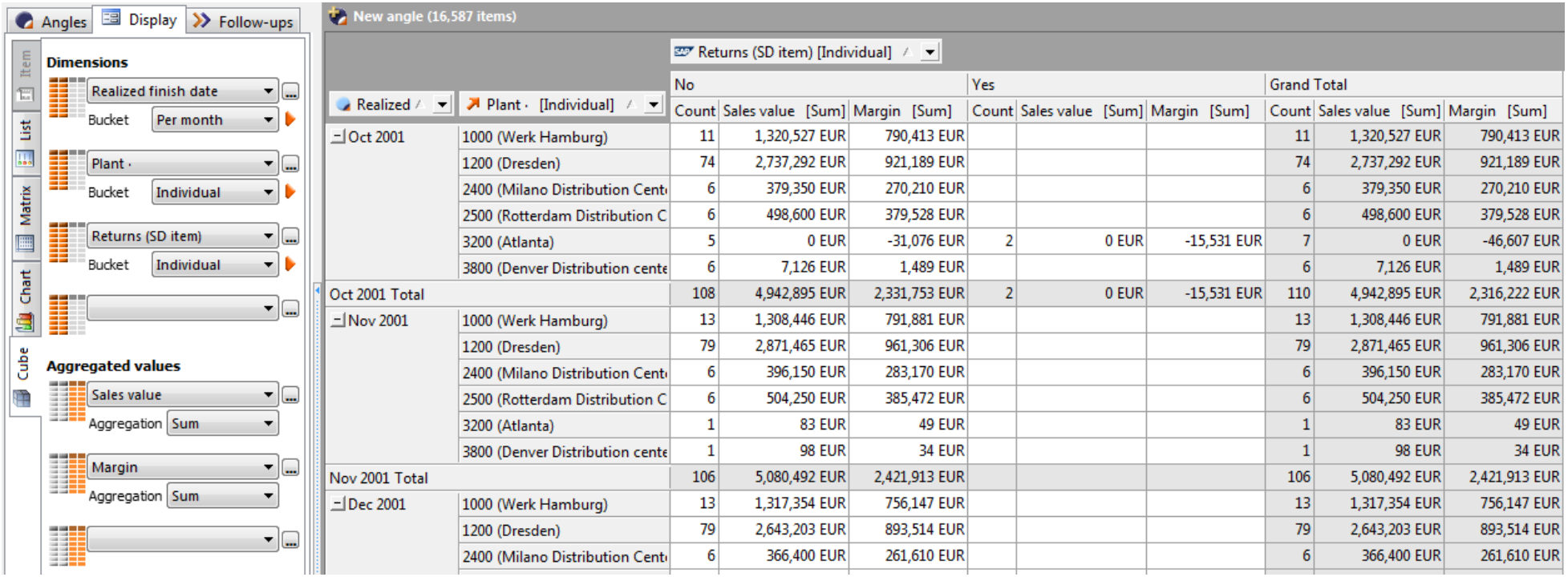
# Realized in 2011:
# Usability and ease of use: Multi column sort



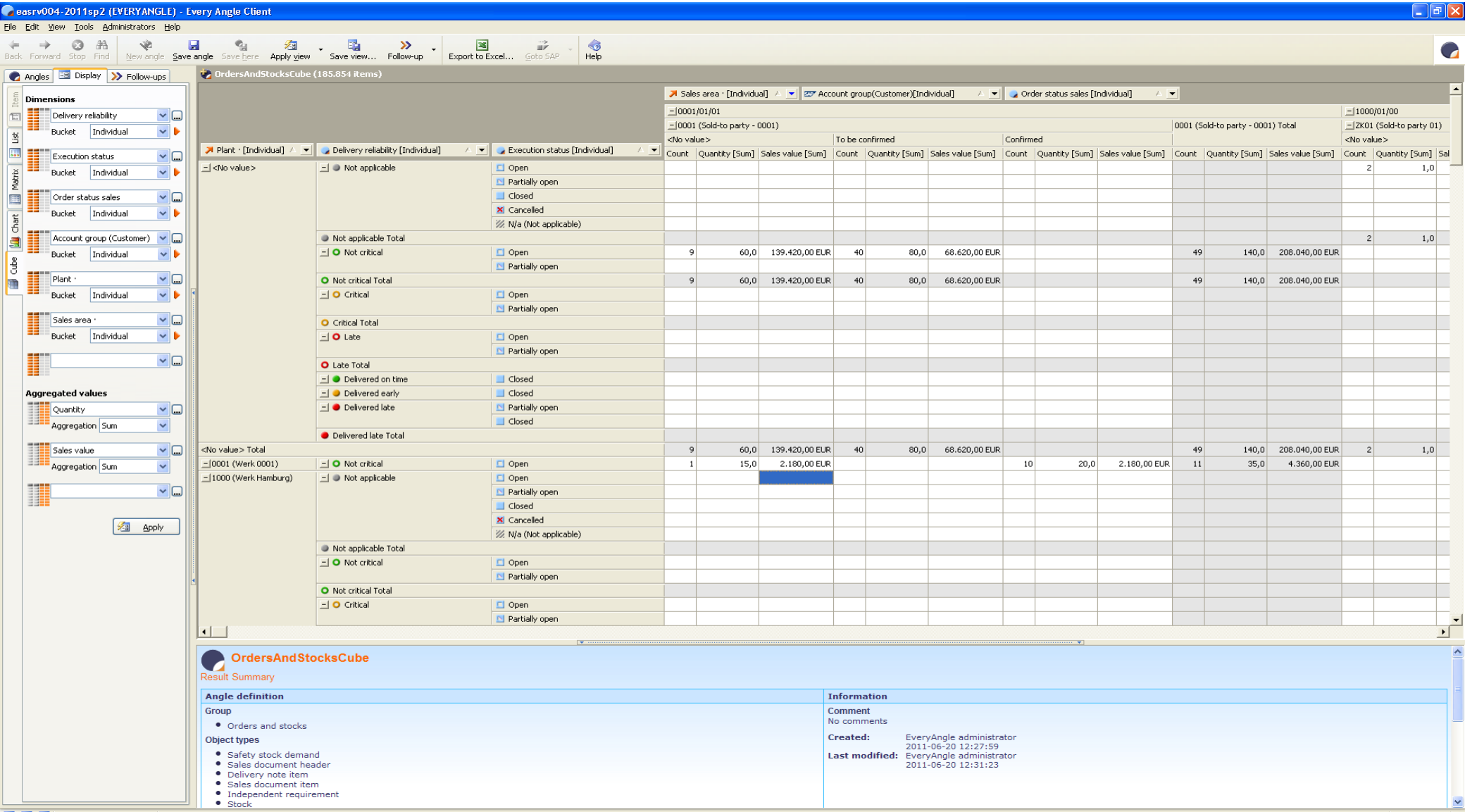
# Realized in 2011:
# Usability and ease of use: Field chooser



# Realized in 2011:
# Usability and ease of use: Extended Cube



# New Cube

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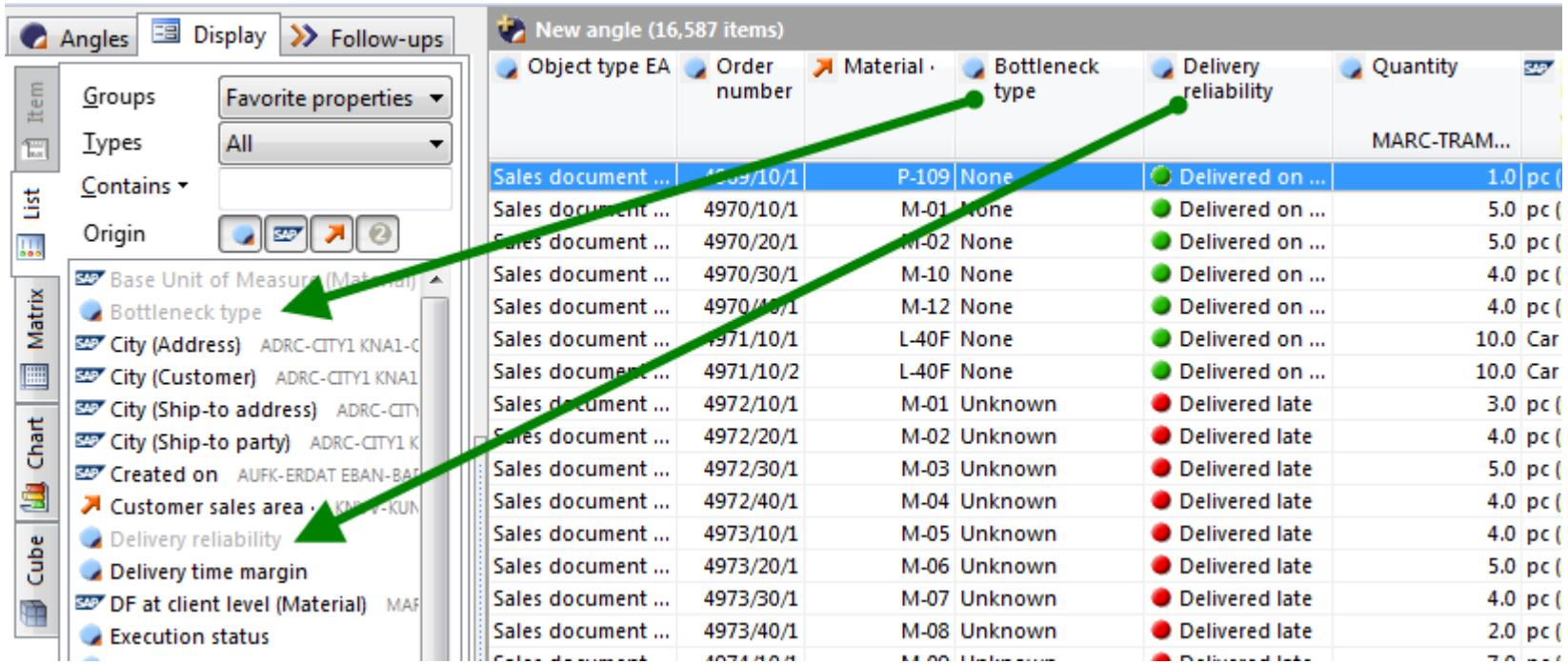
# Realized in 2011:
# Usability and ease of use: List: used columns still in list



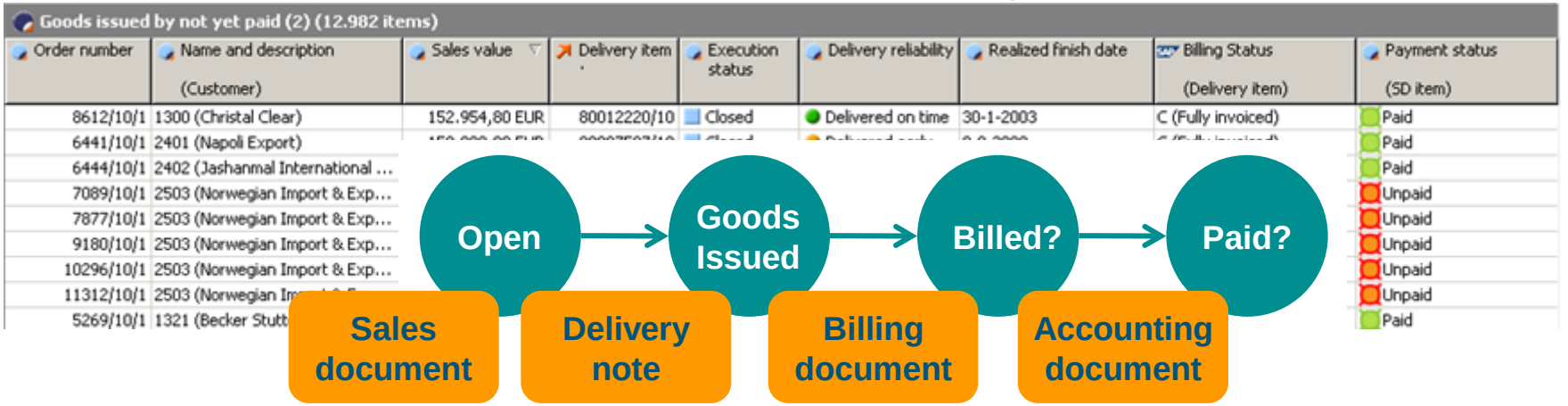
# FiCo Extensions: New properties

1. Payment status of transaction data
    1. Invoice receipt
    2. Purchase Order (Header, line)
    3. Billing document
    4. SD document (Header, line)
2. Overdue payment status, days to payday
3. Multiple ‘rolled up’ properties in Invoice header
4. Average, weighted payment terms, Realized and requested

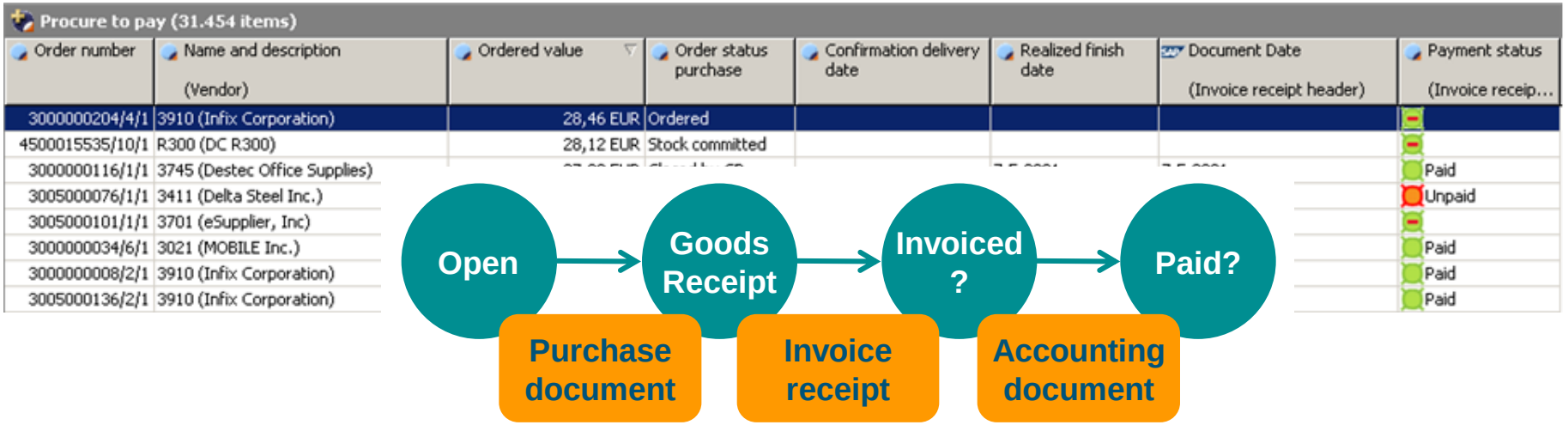
# Every Angle OPM for Finance (eg)

## Order to Cash Cycle

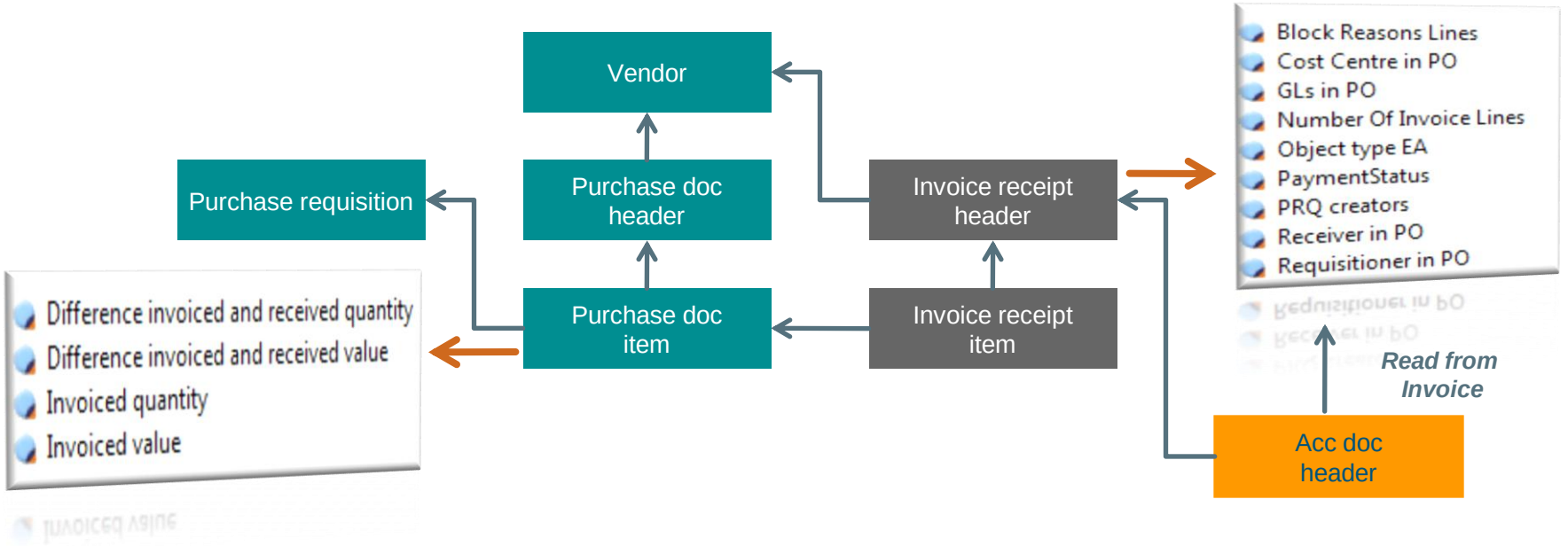
**Logistics and FiCo are connected allowing full analysis**




## Procure to Pay Cycle



# Procurement to Pay: The Purchase Triangle (eg)




By combining data from

- The accounting documents,
- The invoice header and lines
- The purchase order header and lines and even from
- The purchase requisitions behind the purchase order lines

Every Angle is able to present a large number of advanced properties that are difficult to obtain in any other way.

# Procure to Pay: Vendor analytics

Spend past year

Tot amount payable

DPO

Average, weighted payment terms, Realized and requested / diffs

11) Vendor analytics: DPO and avg pay terms (318 items)

| Object type EA | Name and description (Vendor) | Spend past year | Total amount payable | DPO | Weighted Avg Payment Term Ultimo 1 year | Weighted Avg Payment Term Realised 1 year | Weighted avg. payment term diffe... |
|---|---|---|---|---|---|---|---|
| Vendor comp... | 1025 (SEC System SA) | 12,452,635.32 EUR | 0 | 0 | 28 | 253 | 226 |
| Vendor comp... | 100 (C.E.B. BERLIN) | 9,785,767.23 EUR | 159 | 0 | 39 | 20 | -19 |
| Vendor comp... | 3803 (Multi-State Brokers, Inc.) | 8,511,526.33 EUR | 2232767 | 96 | 30 | 271 | 241 |
| Vendor comp... | 3815 (EGS America) | 8,511,244.44 EUR | 0 | 0 | 45 | 88 | 43 |
| Vendor comp... | R3002 (Meyer Hardware Inc.) | 6,304,493.74 EUR | 124136 | 7 | 0 | 274 | 274 |
| Vendor comp... | 100128 (Global Business Prope... | 5,906,640.00 EUR | 0 | 0 | 0 | 708 | 708 |
| Vendor comp... | R3001 (Omnimum Inc.) | 5,394,225.45 EUR | 159333 | 11 | 0 | 320 | 320 |
| Vendor comp... | 3902 (SCT Inc.) | 5,199,611.60 EUR | 0 | 0 | 45 | 80 | 35 |
| Vendor comp... | R3000 (Allfresh Inc.) | 4,958,874.90 EUR | 113796 | 8 | 0 | 292 | 292 |
| Vendor comp... | 1035 (Sommer GmbH) | 4,880,437.54 EUR | 0 | 0 | 0 | 1 | 1 |
| Vendor comp... | 1040 (Hamberger u. CO.) | 4,716,841.46 EUR | 0 | 0 | 0 | 1 | 1 |

# Order to Cash: Customer analytics

Revenue past year

Tot amount receivable

DSO

Average, weighted payment terms, Realized and requested / diffs

04) Customer analytics overview past due and DSO (352 items)

| Object type EA | Name and description (Customer) | Revenue past year | Total amount receivable | DSO | Weighted Avg Payment Term Ultimo 1 year | Weighted Avg Payment Term Realised 1 year | Weighted avg. payment term diff... |
|---|---|---|---|---|---|---|---|
| Customer ... | 1033 (Karsson High Tech Markt) | 32447612 | 1140795 | 9 | 30 | 7 | -23 |
| Customer ... | 1050 (Becker AG) | 40257778 | 7626482 | 52 | 45 | 44 | -1 |
| Customer ... | 1901 (Motor Sports) | 22298478 | 1941858 | 38 | 45 | 3 | -42 |
| Customer ... | 3050 (Bush Holdings, Inc.) | 757368 | 553300 | 267 | 44 | 24 | -20 |
| Customer ... | 1032 (Institut fuer Umweltforschung) | 12056235 | 457694 | 10 | 45 | 13 | -32 |
| Customer ... | CMS0000030 (Adecom SA) | 863965 | 405000 | 171 | 0 | 190 | 190 |
| Customer ... | 2200 (HTG Komponente GmbH) | 20870959 | 629320 | 8 | 45 | 36 | -9 |
| Customer ... | CMS0000040 (Tubes Ltd.) | 1156197 | 371000 | 117 | 0 | 168 | 168 |
| Customer ... | 2004 (SudaTech GmbH) | 21451168 | 393733 | 5 | 45 | 28 | -17 |
| Customer ... | 300286 (Dynamic Industries) | 300000 | 300000 | 365 | | | |
| Customer ... | CMS0000012 (Reifen & More GmbH) | 645894 | 290000 | 164 | 0 | 148 | 148 |
| Customer ... | 2130 (COMPU Tech. AG) | 24214915 | 369928 | 4 | 27 | 11 | -15 |
| Customer ... | R110 (SB Warenhaus R110) | 3579345 | 278302 | 15 | 0 | 76 | 76 |

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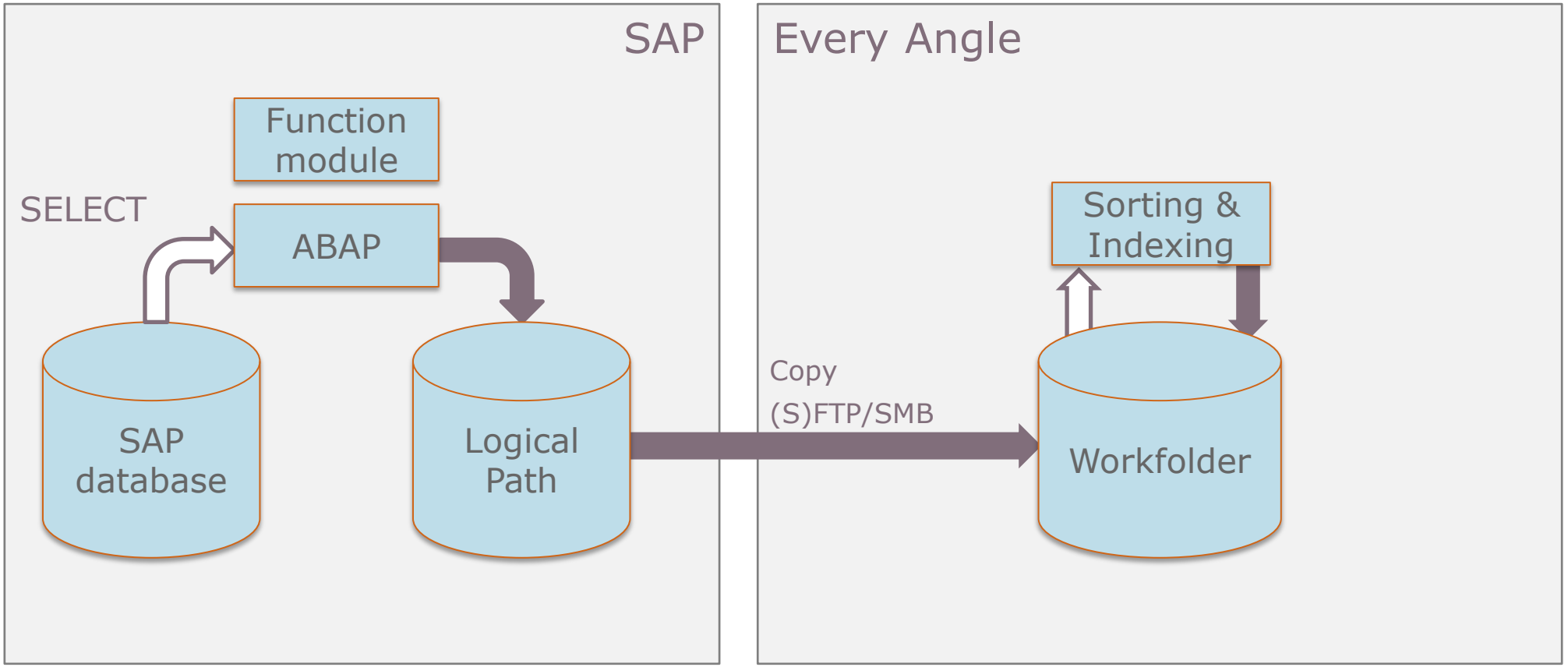
# Every Angle Development, available in 2011

- Download using RFC data transport
- Improved Extractor scheduling
- Miscellaneous

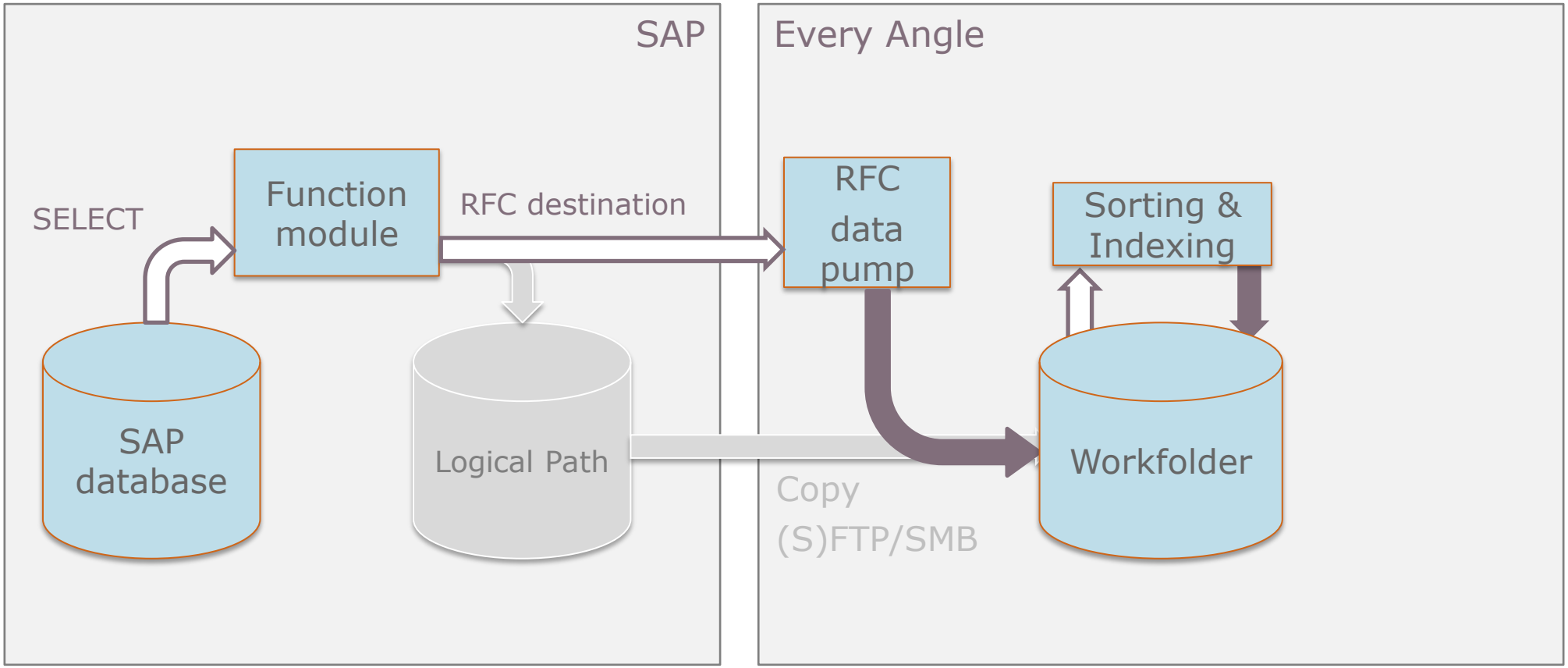
# Download using RFC data transport

- Classic Data flow from SAP system to Every Angle Workfolder



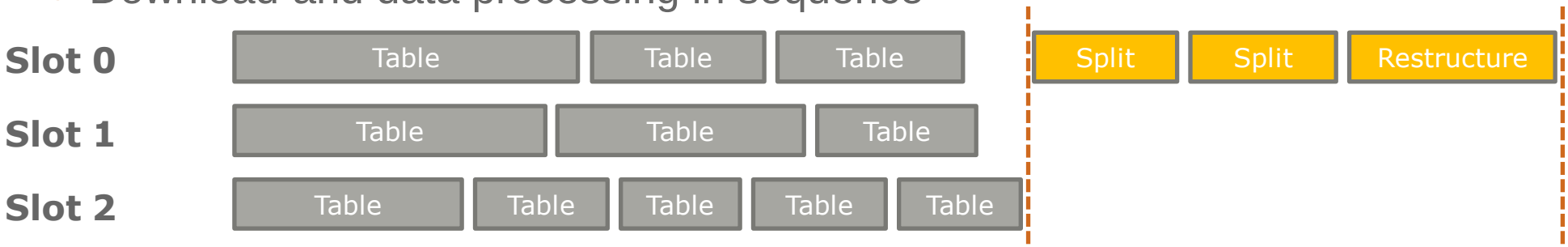
# Download using RFC data transport

- New data flow using RFC



# Improved Extractor scheduling

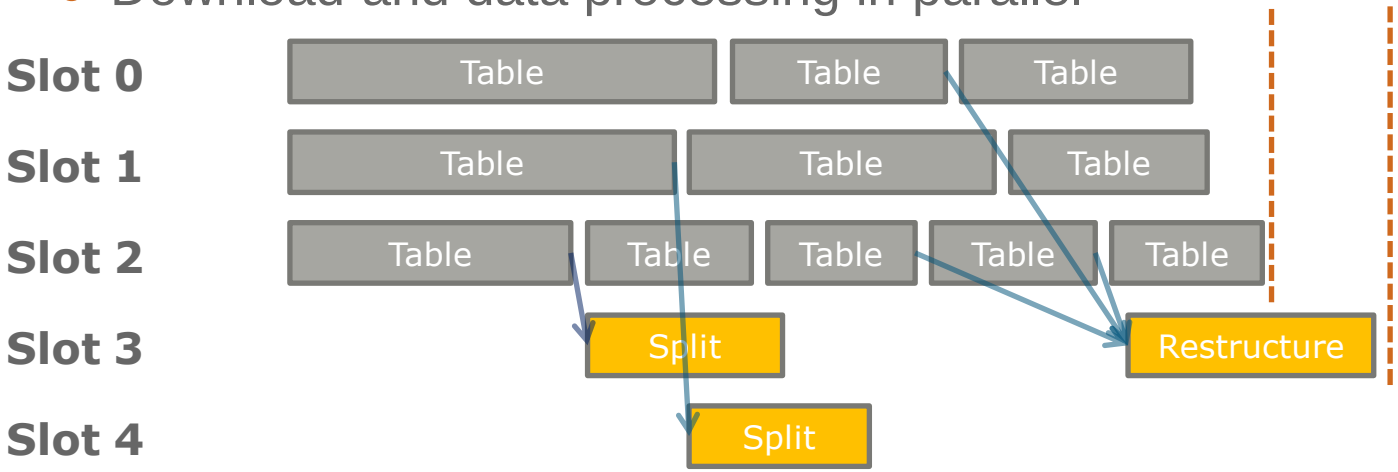
- Download and data processing in sequence




## Processing action in sequence after extraction

# Improved Extractor scheduling

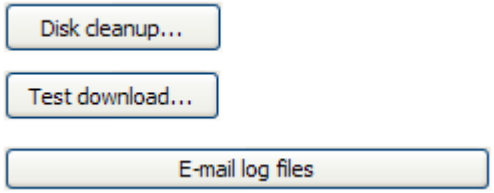
- Download and data processing in parallel




## Processing parallel to extraction

# Miscellaneous

- System management (EAConfigurator)
  - Cleanup diskspace
  - Test Extraction
  - Email Logfiles




- Lots of smaller improvements

- Security
  - RSA encrypted password transport
  - Improved Security for password storage
  - Password complexity rules

# Every Angle development 2012 and after

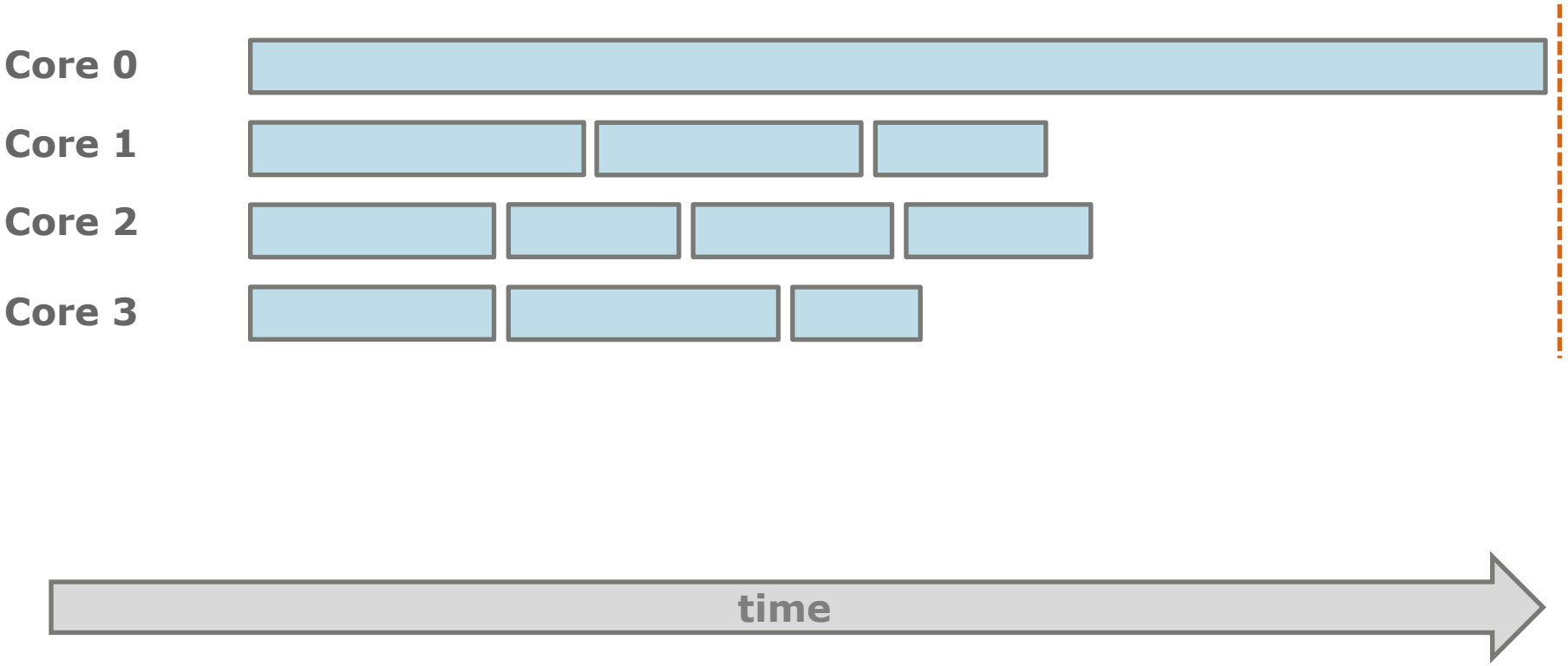
- 64-bit version
- Server load optimization
- M4 architecture

# 64-bit version

- Main server components available for x64
  - Virtual memory limit 4GB -> 8TB
  - Physical memory 64GB -> 2TB
  - Much better scaling for huge data models
  - ‘unlimited’ data volume
  - Better performance for memory dependent operations

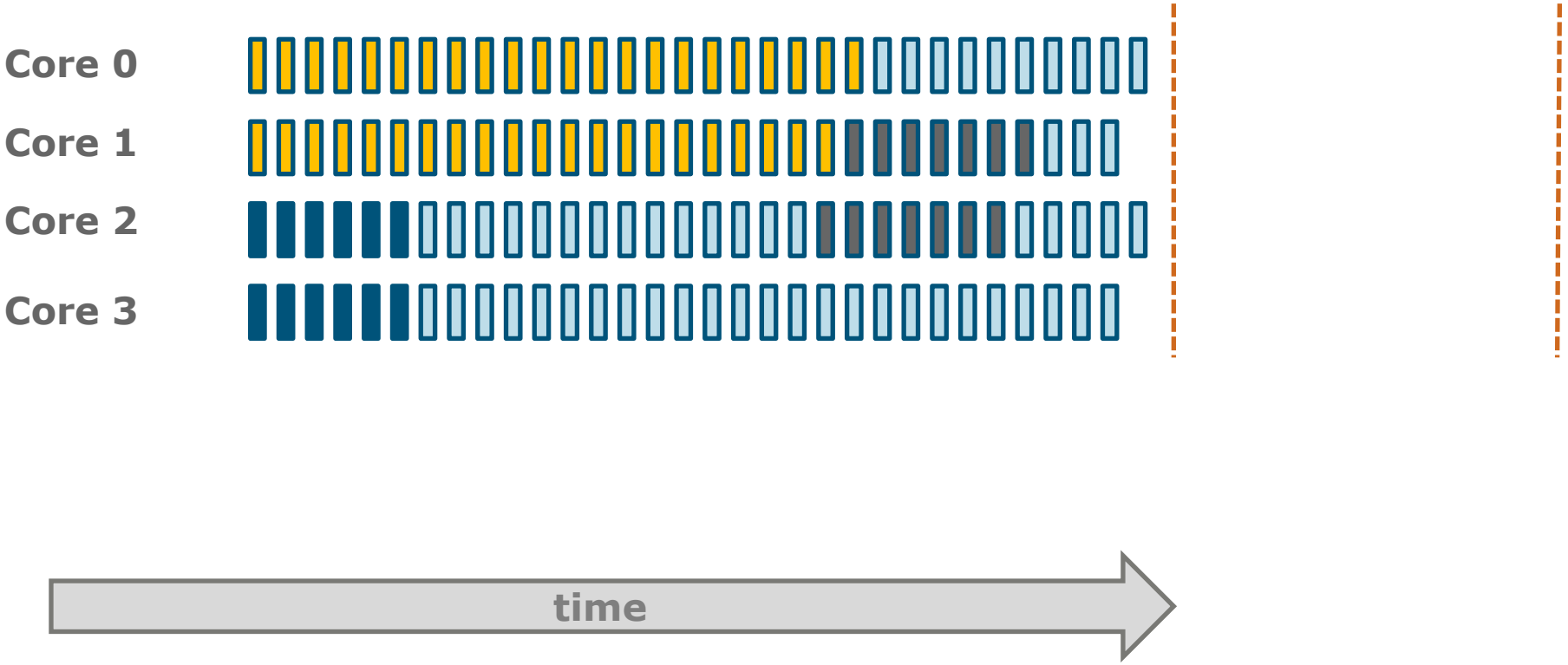
# Server load – current

- Each class is assigned to a single core
- Each core loads one class at a time



# Server load - optimization

- Each class is divided into parts
- Multiple cores can load parts of the same class



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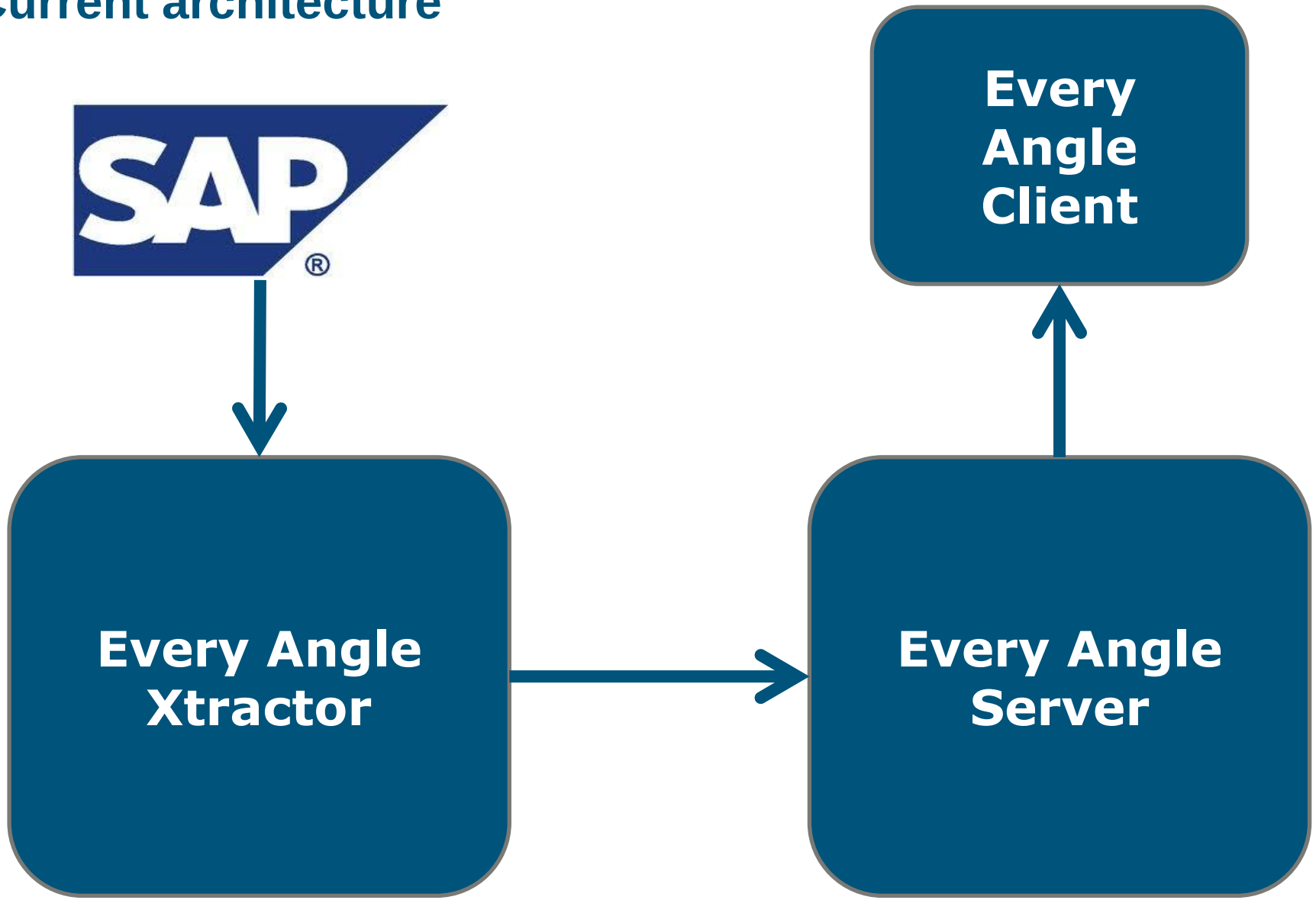
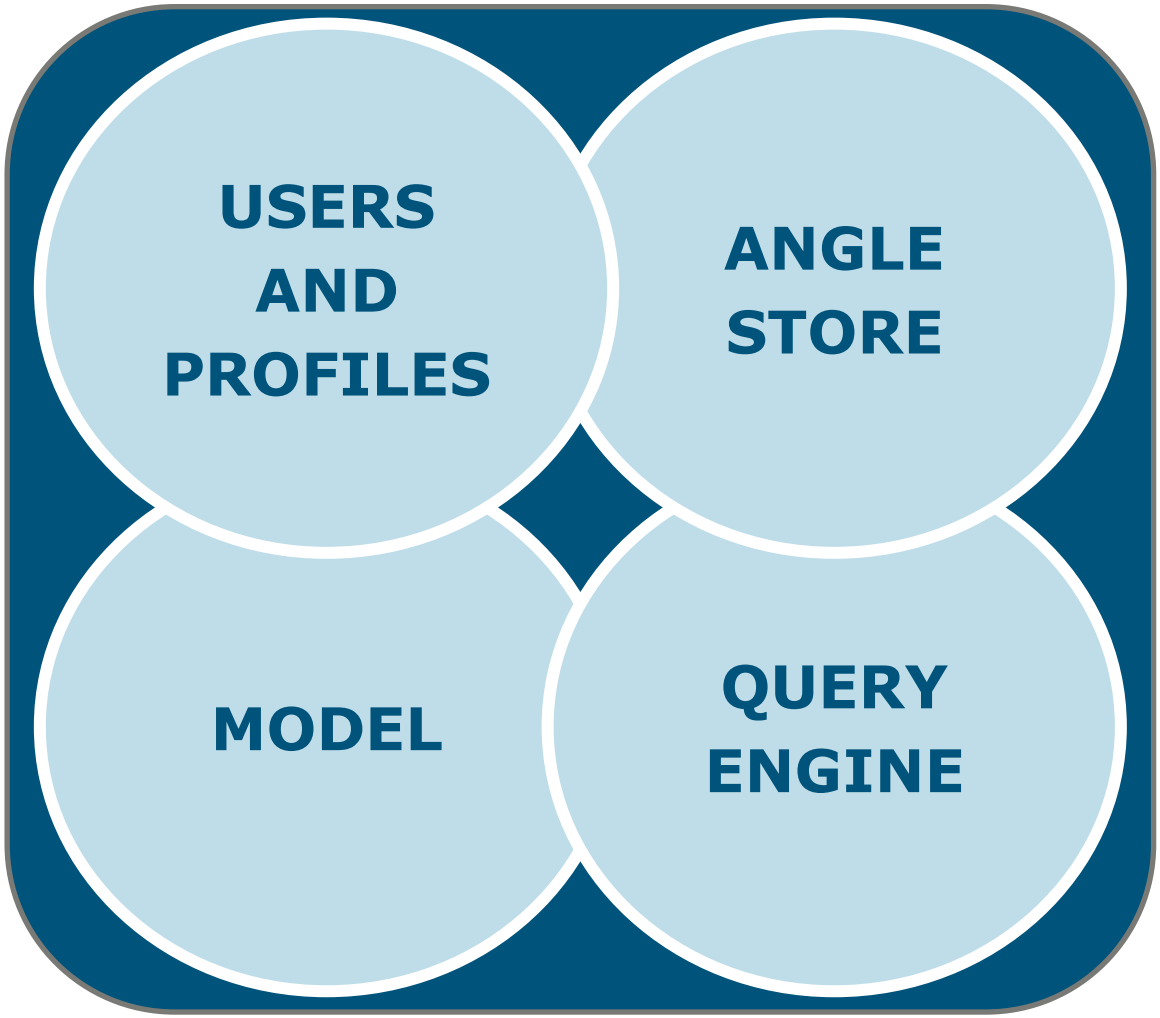
# Every Angle architecture

- Current M3 architecture
- M4 architecture overview
- Benefits of the new architecture

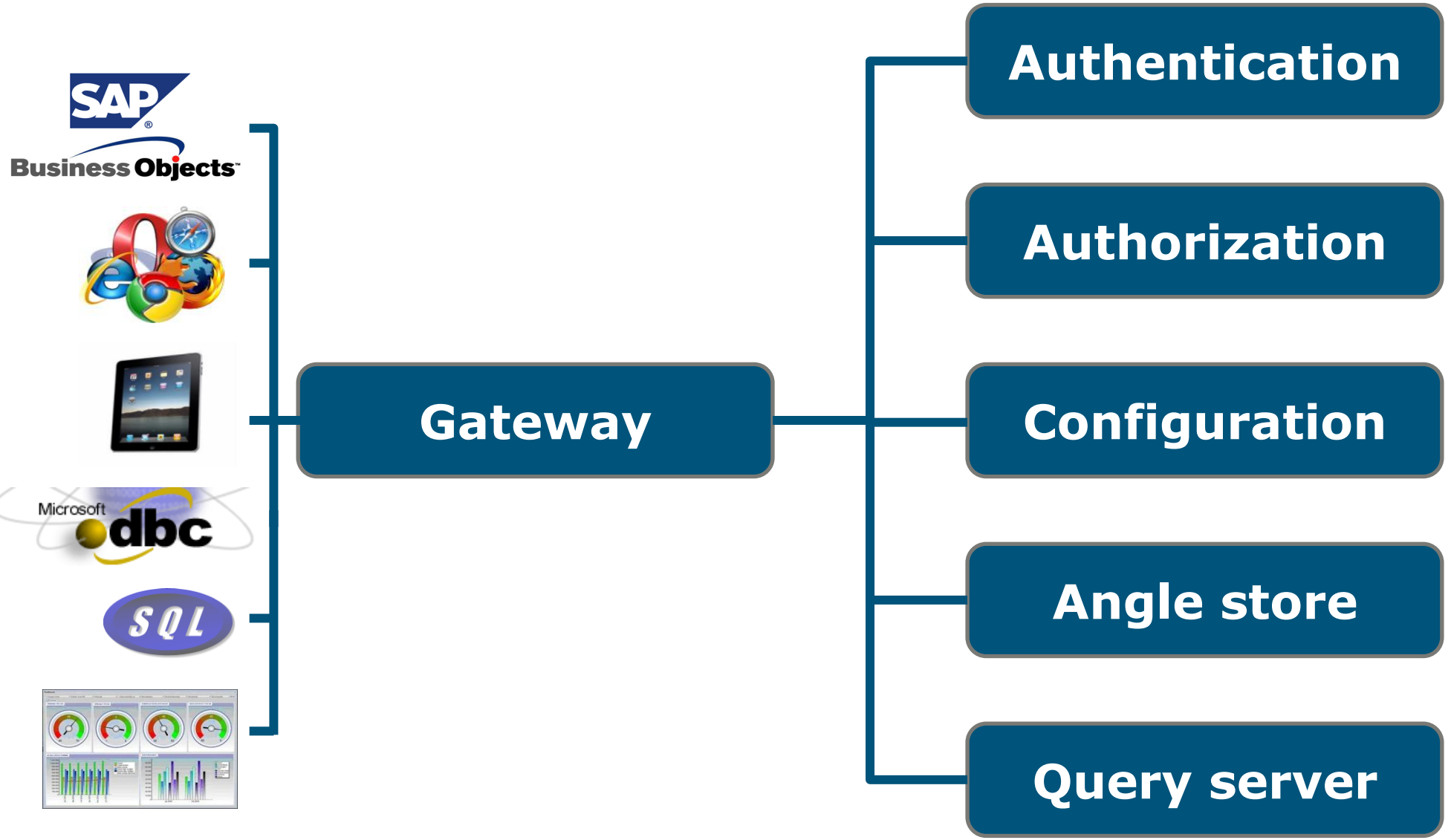
# Current architecture



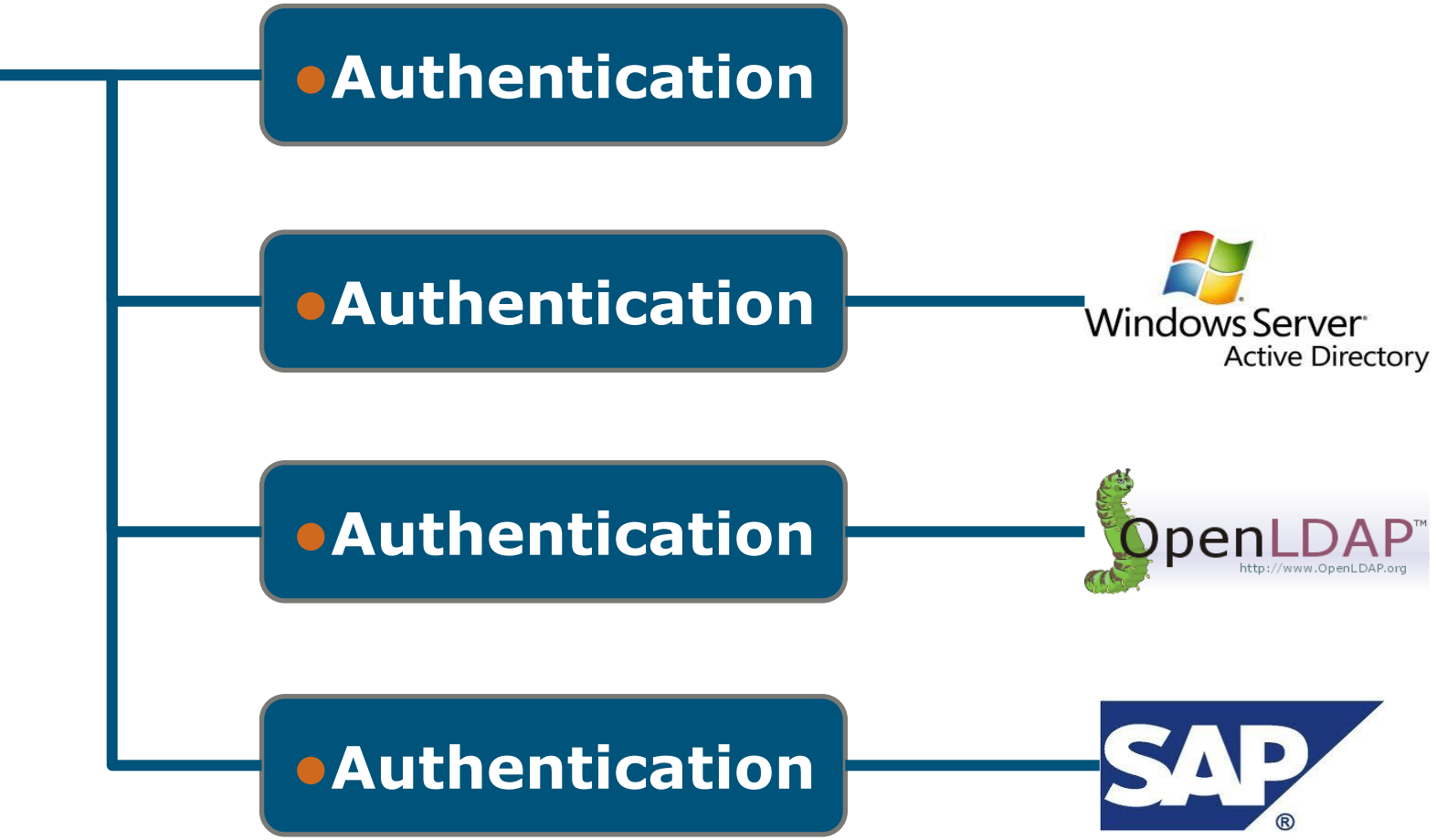
# Current architecture – Every Angle server



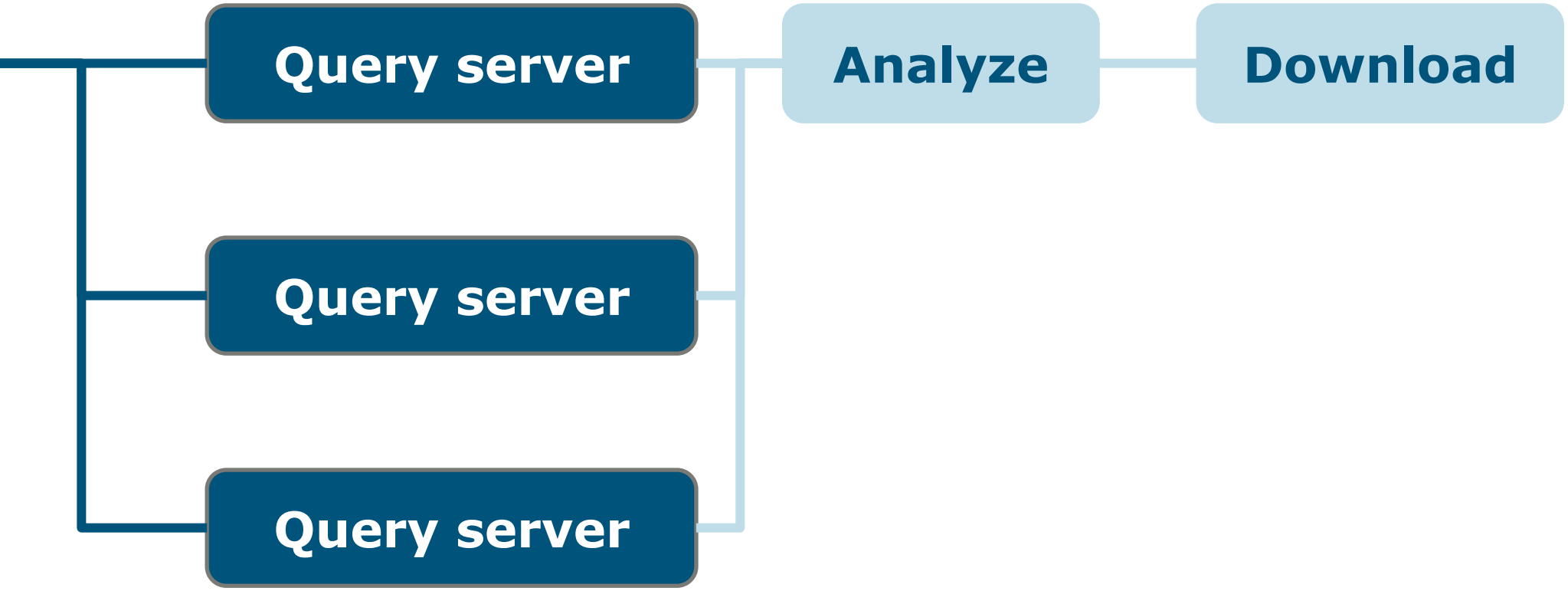
# M4 architecture overview



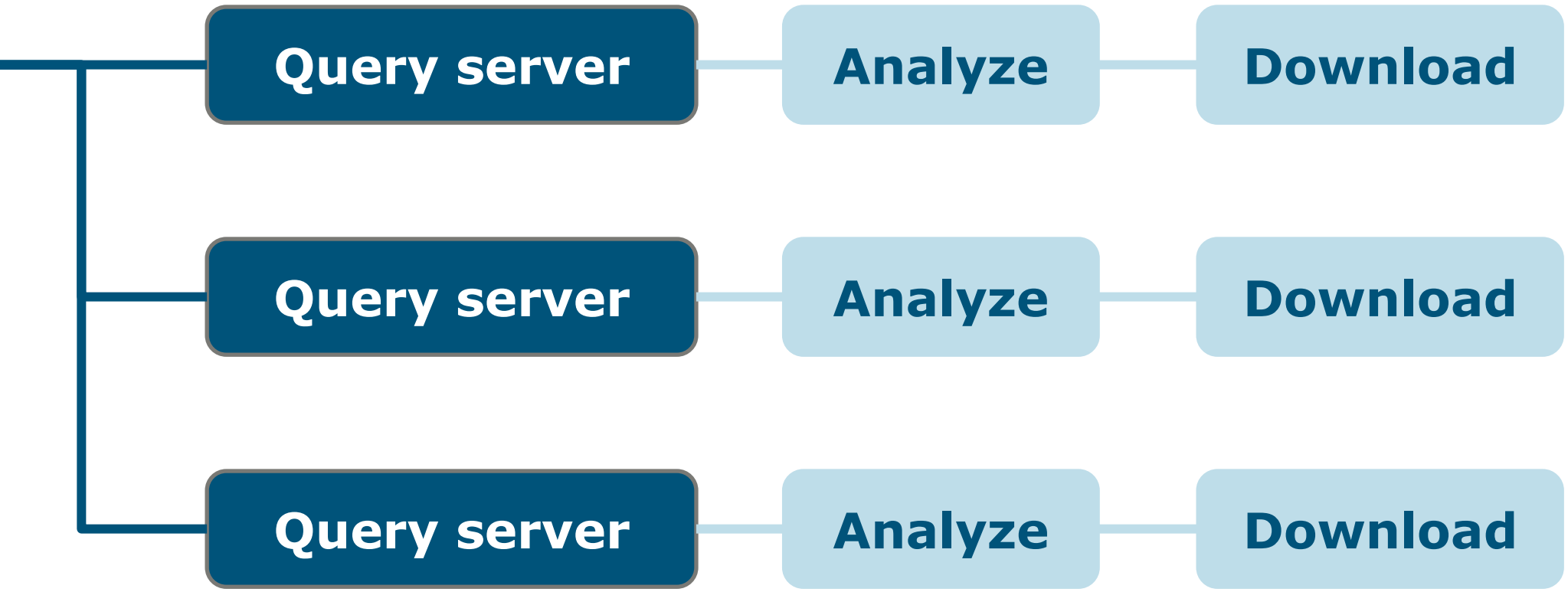
# Benefits of the new architecture



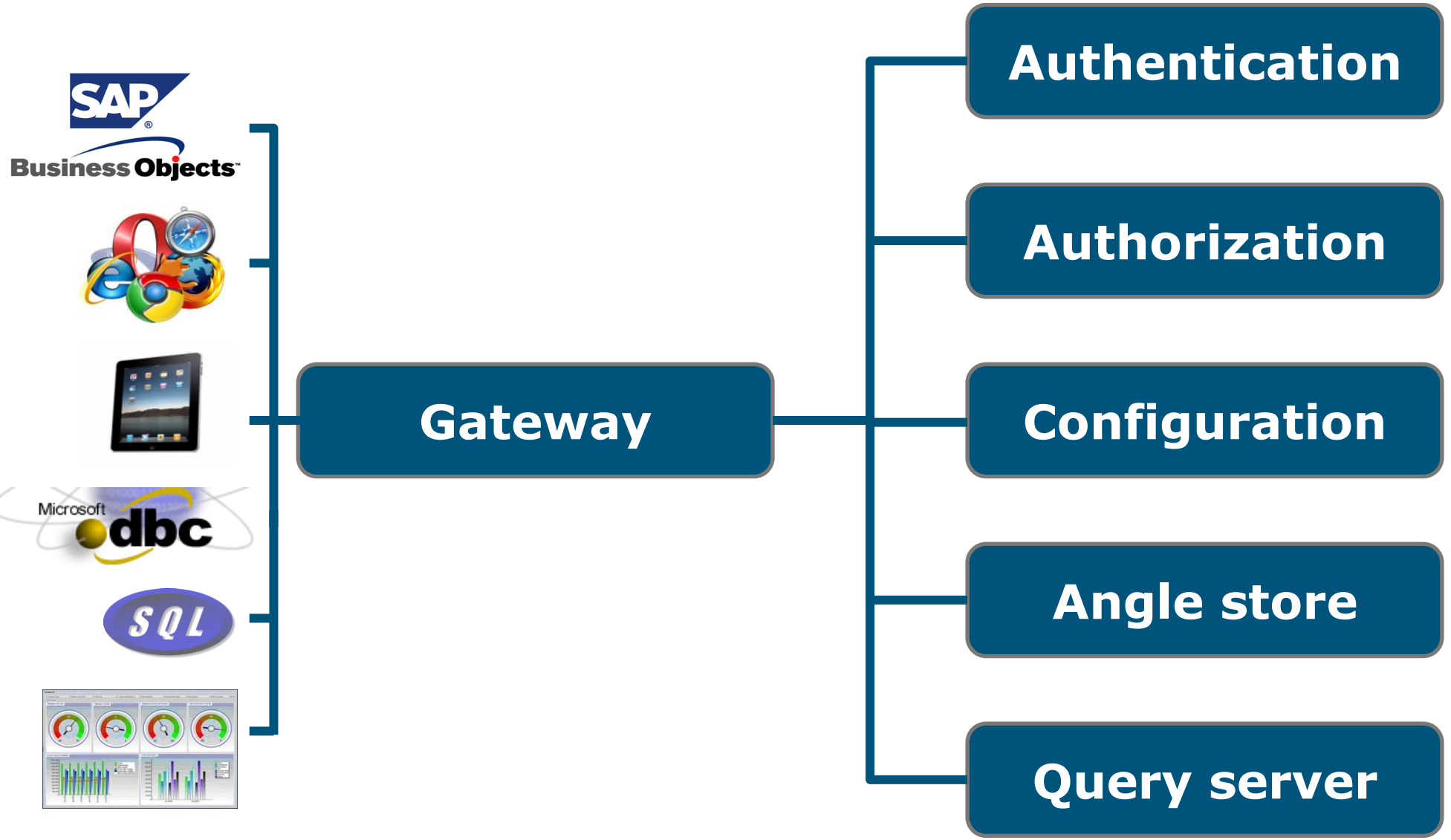
# Benefits of the new architecture



# Benefits of the new architecture



# M4 architecture overview



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# Human Resource Management in Every Angle

ProFormit

## Three user groups:

1 Employee

- How much leave have I left?
- Is my personal data accurate?
- Is my salary and my claimes paid and what amount?

2 Manager

- How many FTE and employees are in the company?
- What is the leave balance company wide?
- How high is our illness rate?
- How many positions are vacant? And for which jobs?
- What is the average gross salary of a function?

3 HR professional

- As Manager, but within her/his own authorisation area

# Why is HRM complex?

ProFormit

1 Different data structure philosophy

- HRM was externally bought by SAP
- Validity periods
- Data in Infotypes & cluster tables

2 Complexity of organizational structure

- Not same as in MM or FI
- Nested organisational units
- Positions / Functions / n:m relations, changes over time

3 Security

- Who can see what data based on your organisational position

4 Technically “Cluster tables”

# EA-HR: Organizational Management

**"HR data can be shown on every organizational level"**

For example:

FTE count per department

| OrgUnitLevel1 | OrgUnitLevel2 | OrgUnitLevel3 | OrgUnitLevel4 | Organizational unit (Organiz | Grand Total Count | Grand Total ContractedFte [Sum] |
|---|---|---|---|---|---|---|
| 50028880 | 50000514 | 50000515 | 50000518 | 50000519 (Human Resources) | 3 | 3 |
| | | | | 50000701 (MB Department) | 5 | 4.6 |
| | | | | 50000702 (RH Department) | 5 | 4.4 |
| | | | | 50001481 (LCM Department) | 6 | 5 |
| | | | | 50002303 (KM Department) | 6 | 4 |
| | | | | 50002304 (Recruiting Branch - KM) | 4 | 3.5 |
| | | | | 50002305 (Benefits Branch - KM) | 1 | 0.5 |
| | | | 50000518 Total | | 30 | 25 |
| | 50014511 | 50014456 | <No value> | 50014456 (LMM Department) | 4 | 4 |
| 50028880 Total | | | | | 34 | 29 |

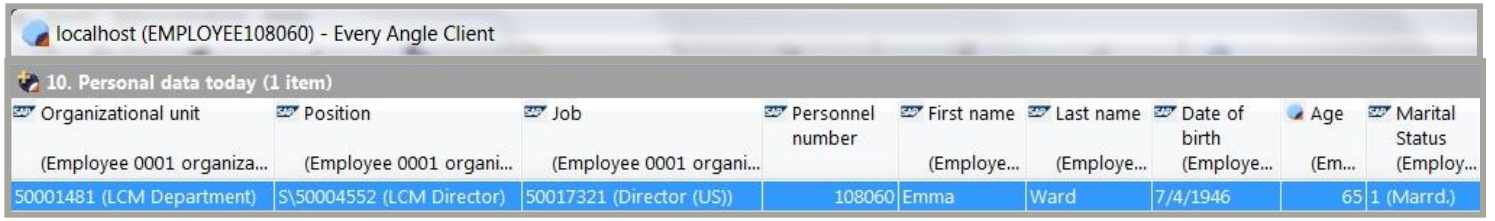
# EA-HR: OM based Authorisations

ProFormit

"Every HR data is shown based on your position in the Organisation"

For example:

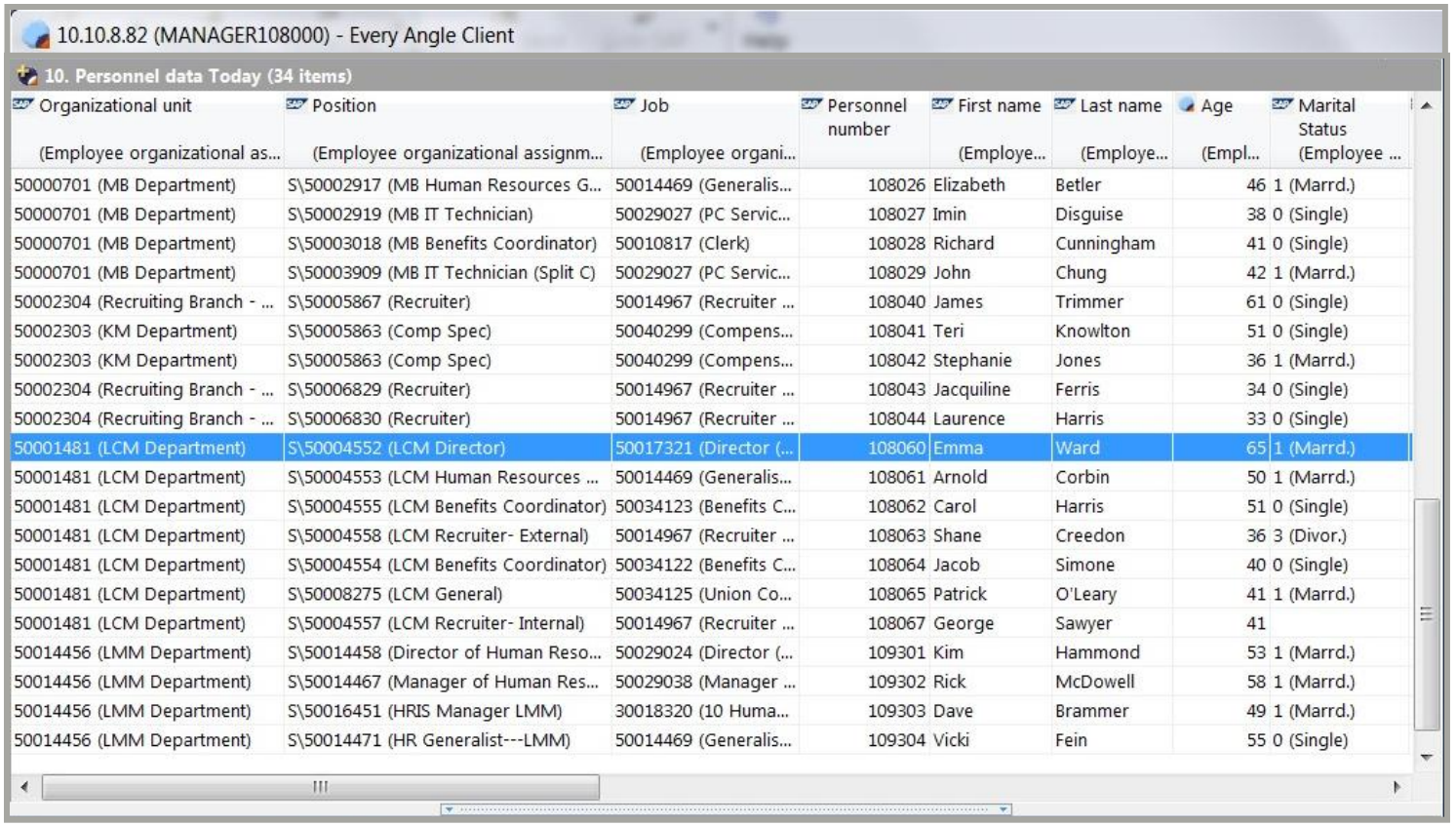
Personnel data



localhost (EMPLOYEE108060) - Every Angle Client

10. Personal data today (1 item)

| Organizational unit (Employee 0001 organiza... | Position (Employee 0001 organi... | Job (Employee 0001 organi... | Personnel number | First name (Employe... | Last name (Employe... | Date of birth (Employe... | Age (Em... | Marital Status (Employ... |
|---|---|---|---|---|---|---|---|---|
| 50001481 (LCM Department) | S\50004552 (LCM Director) | 50017321 (Director (US)) | 108060 | Emma | Ward | 7/4/1946 | 65 | 1 (Marrd.) |



10.10.8.82 (MANAGER108000) - Every Angle Client

10. Personnel data Today (34 items)

| Organizational unit (Employee organizational as... | Position (Employee organizational assignm... | Job (Employee organi... | Personnel number | First name (Employe... | Last name (Employe... | Age (Empl... | Marital Status (Employee ... |
|---|---|---|---|---|---|---|---|
| 50000701 (MB Department) | S\50002917 (MB Human Resources G... | 50014469 (Generalis... | 108026 | Elizabeth | Betler | 46 | 1 (Marrd.) |
| 50000701 (MB Department) | S\50002919 (MB IT Technician) | 50029027 (PC Servic... | 108027 | Imin | Disguise | 38 | 0 (Single) |
| 50000701 (MB Department) | S\50003018 (MB Benefits Coordinator) | 50010817 (Clerk) | 108028 | Richard | Cunningham | 41 | 0 (Single) |
| 50000701 (MB Department) | S\50003909 (MB IT Technician (Split C) | 50029027 (PC Servic... | 108029 | John | Chung | 42 | 1 (Marrd.) |
| 50002304 (Recruiting Branch - ... | S\50005867 (Recruiter) | 50014967 (Recruiter ... | 108040 | James | Trimmer | 61 | 0 (Single) |
| 50002303 (KM Department) | S\50005863 (Comp Spec) | 50040299 (Compens... | 108041 | Teri | Knowlton | 51 | 0 (Single) |
| 50002303 (KM Department) | S\50005863 (Comp Spec) | 50040299 (Compens... | 108042 | Stephanie | Jones | 36 | 1 (Marrd.) |
| 50002304 (Recruiting Branch - ... | S\50006829 (Recruiter) | 50014967 (Recruiter ... | 108043 | Jacquiline | Ferris | 34 | 0 (Single) |
| 50002304 (Recruiting Branch - ... | S\50006830 (Recruiter) | 50014967 (Recruiter ... | 108044 | Laurence | Harris | 33 | 0 (Single) |
| 50001481 (LCM Department) | S\50004552 (LCM Director) | 50017321 (Director (... | 108060 | Emma | Ward | 65 | 1 (Marrd.) |
| 50001481 (LCM Department) | S\50004553 (LCM Human Resources ... | 50014469 (Generalis... | 108061 | Arnold | Corbin | 50 | 1 (Marrd.) |
| 50001481 (LCM Department) | S\50004555 (LCM Benefits Coordinator) | 50034123 (Benefits C... | 108062 | Carol | Harris | 51 | 0 (Single) |
| 50001481 (LCM Department) | S\50004558 (LCM Recruiter- External) | 50014967 (Recruiter ... | 108063 | Shane | Creedon | 36 | 3 (Divor.) |
| 50001481 (LCM Department) | S\50004554 (LCM Benefits Coordinator) | 50034122 (Benefits C... | 108064 | Jacob | Simone | 40 | 0 (Single) |
| 50001481 (LCM Department) | S\50008275 (LCM General) | 50034125 (Union Co... | 108065 | Patrick | O'Leary | 41 | 1 (Marrd.) |
| 50001481 (LCM Department) | S\50004557 (LCM Recruiter- Internal) | 50014967 (Recruiter ... | 108067 | George | Sawyer | 41 | |
| 50014456 (LMM Department) | S\50014458 (Director of Human Reso... | 50029024 (Director (... | 109301 | Kim | Hammond | 53 | 1 (Marrd.) |
| 50014456 (LMM Department) | S\50014467 (Manager of Human Res... | 50029038 (Manager ... | 109302 | Rick | McDowell | 58 | 1 (Marrd.) |
| 50014456 (LMM Department) | S\50016451 (HRIS Manager LMM) | 30018320 (10 Huma... | 109303 | Dave | Brammer | 49 | 1 (Marrd.) |
| 50014456 (LMM Department) | S\50014471 (HR Generalist---LMM) | 50014469 (Generalis... | 109304 | Vicki | Fein | 55 | 0 (Single) |

# EA-HR: Validity periods

**"Every HR data element has a validity period which allows you to create time based angles"**

For example:

- Personal data changes
- Open leave (in days)

| Employee | Address type | Start Date | End Date | Street and House No. | Postal Code | Region | City |
|---|---|---|---|---|---|---|---|
| 109303 | 1 (Permanent residence) | 1/1/1997 | 4/28/1999 | 13 Wilde Ave | 19026 | US\PA (Pennsylvania) | Drexel Hill |
| 109303 | 1 (Permanent residence) | 4/29/1999 | 12/31/9999 | 432 Burmont Road | 19026 | US\PA (Pennsylvania) | Drexel Hill |
| 109303 | 2 (Temporary residence) | 9/1/1997 | 9/1/1998 | 101 Red Lion Rd | 19054 | US\PA (Pennsylvania) | Huntingdon ... |
| 109303 | 4 (Emergency address) | 1/1/1997 | 5/2/1999 | 98-A Havertown Rd | 19701 | US\DE (Delaware) | Wilmington |
| 109303 | 4 (Emergency address) | 5/3/1999 | 12/31/9999 | 234 Main Street | 02112 | US\MA (Massachusetts) | Lexington |
| 109303 | 5 (Mailing address) | 1/1/1997 | 12/31/9999 | PO Box 99 | 19113 | US\PA (Pennsylvania) | Philadelphia |

| Personnel number (Employee) | Employee/app.name (Employee organizati... | JAHR4 | Absence quota type | Quota text | QuotaDays | OpeningBalanceDays | UsedQuotaDays | ClosingBalanceDays |
|---|---|---|---|---|---|---|---|---|
| 1000 | Anja Müller | 2002 | 9 | Leave (Days) | 30 | 30 | 10 | 20 |
| 1000 | Anja Müller | 2004 | 9 | Leave (Days) | 30 | 50 | 0 | 50 |
| 1000 | Anja Müller | 2005 | 9 | Leave (Days) | 30 | 80 | 0 | 80 |
| 1000 | Anja Müller | 2006 | 9 | Leave (Days) | 30 | 110 | 0 | 110 |

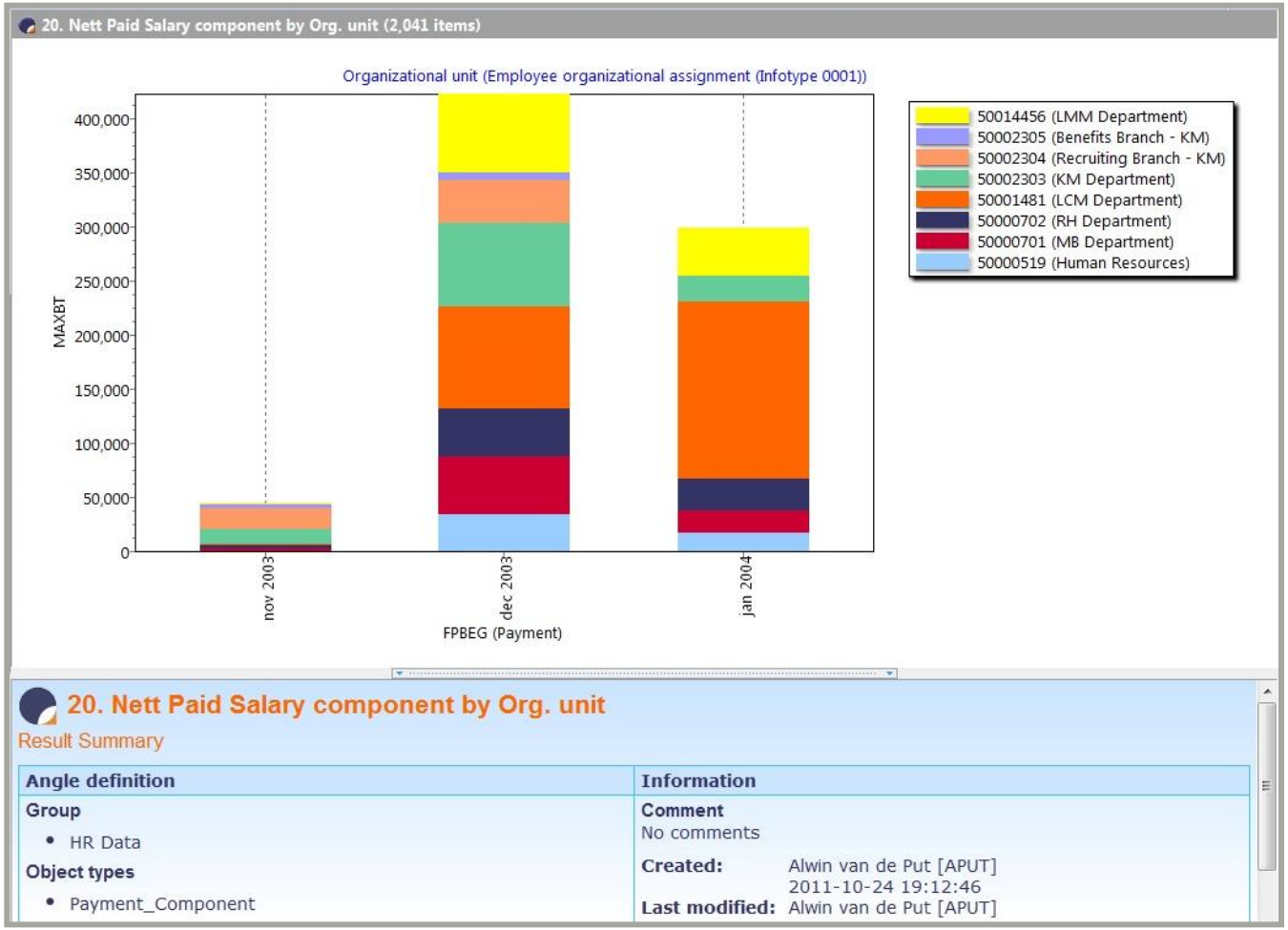
# EA-HR: Cluster tables

ProFormit

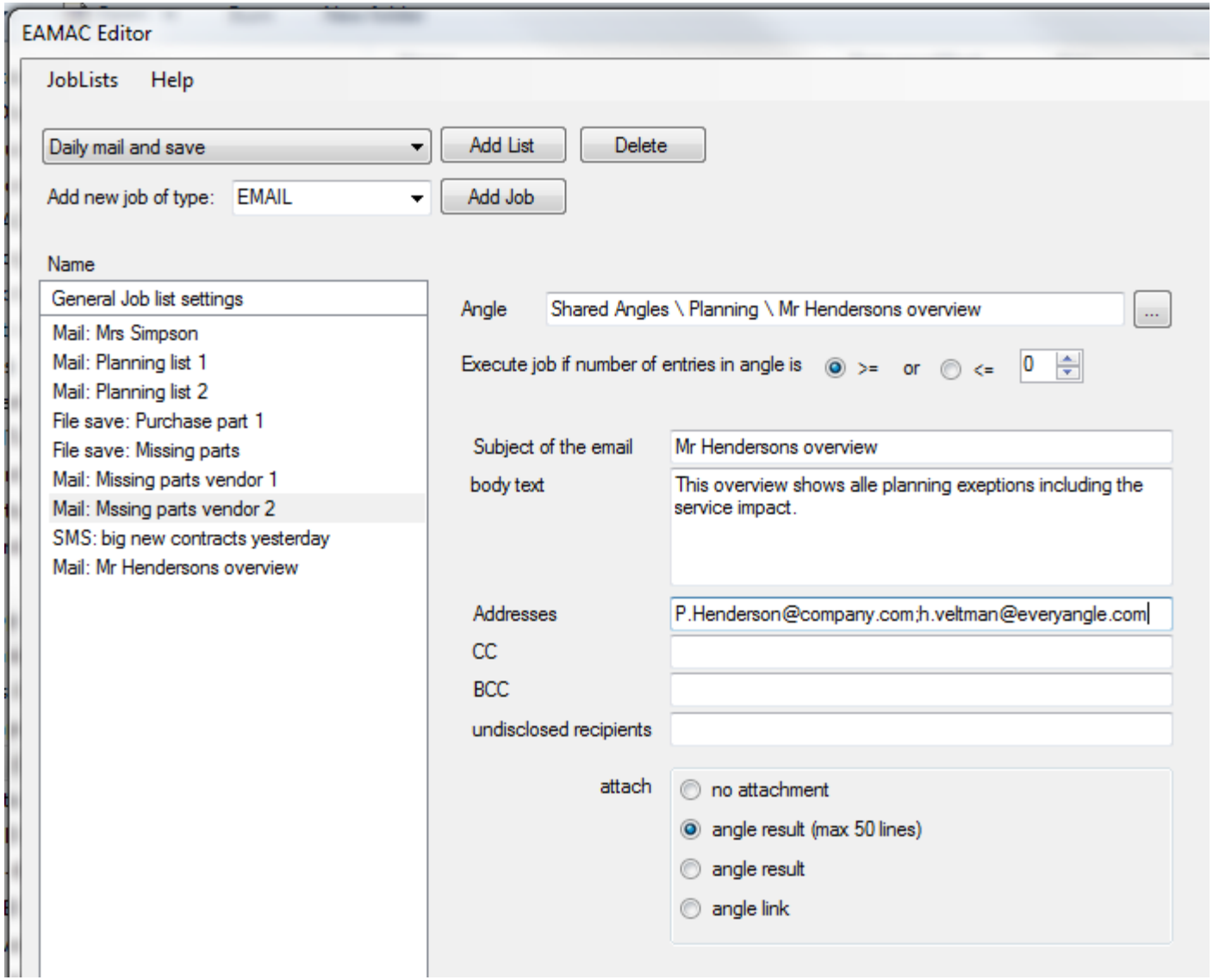
## "Every HR also contains cluster table data"

For example:

Nett salary payments



# Mini Automated Client



# Your votes please 2011

Please give us your votes to help us make the right decisions for future releases.

Thanks!

***Please give a total of 100 points to the following topics***

**Client**
- Browser clients
- Extended charting on website
- Instruction movies in client
- Calculated fields in client
- Other:

**Server**
- Retrieve data from any source
- Send results to any target
- APO extension
- CRM/SRM support
- Run real-time on HANA
- Multiple SAP systems in 1 EA server
- Support AFS
- Extend standard SAP functionality
- Other:

**Extractor**
- Get data fast from HANA
- Faster download
- Other:

**System management**
- User via Active Directory
- Get users from SAP
- Improved maintenence
- Other:

**TOTAL** _____