

Audit Extraction Cockpit

Data extraction software



AEC

by TJC-software

SAP® Certified
Powered by SAP NetWeaver®



Why AEC?



The situation and our solution

The situation faced

- Data extract queries are always urgent for auditors
- Management of data extract queries is complex to handle for SAP CC
 - Large size extract volumes are time-consuming
 - How to extract online data but also archived data ?
 - SAP system performance may be affected with implications for system administrators
 - Data security is always an issue

AEC greatly helps SAP administrators and the SAP CC, they can define the access parameters to data and so have the confidence to allow auditors direct access to create data extract definitions.

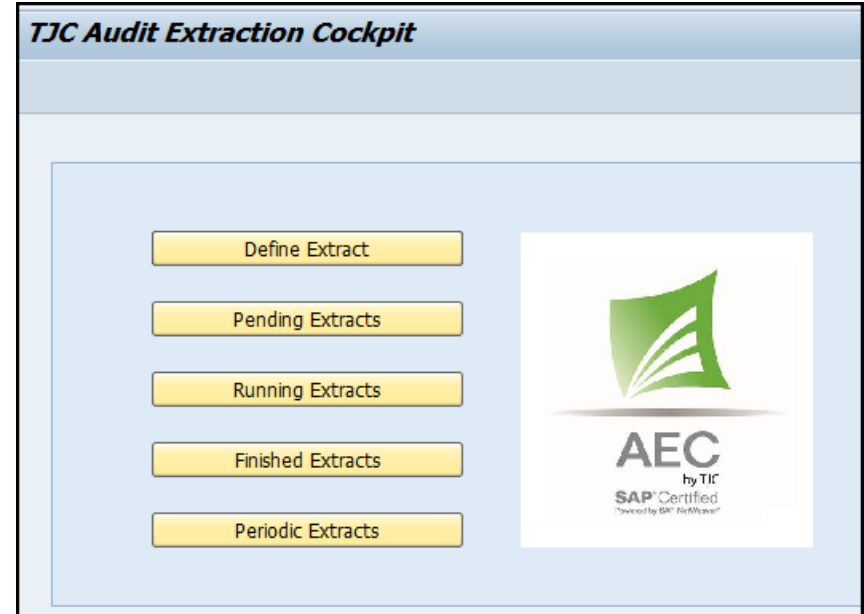
The solution from TJC: AEC

- a flexible software solution for auditors
- Designed in partnership with auditors working with auditing software
- Used by auditors and controlled by system administrators
- Check of extract volume data by traffic light icons if the extract size is within defined size limits.

Key points



- A 100 % SAP ABAP Add-On solution
- Designed for auditors working with auditing software
- A flexible data extract solution which exceeds
- fiscal and technical needs
- All your data can be extracted
- Multiple data formats (ACL, IDEA, Excel)
- Flexible extract definitions
- Links between tables
- On demand & periodic extracts
- Optimized, no limit, secured, automated



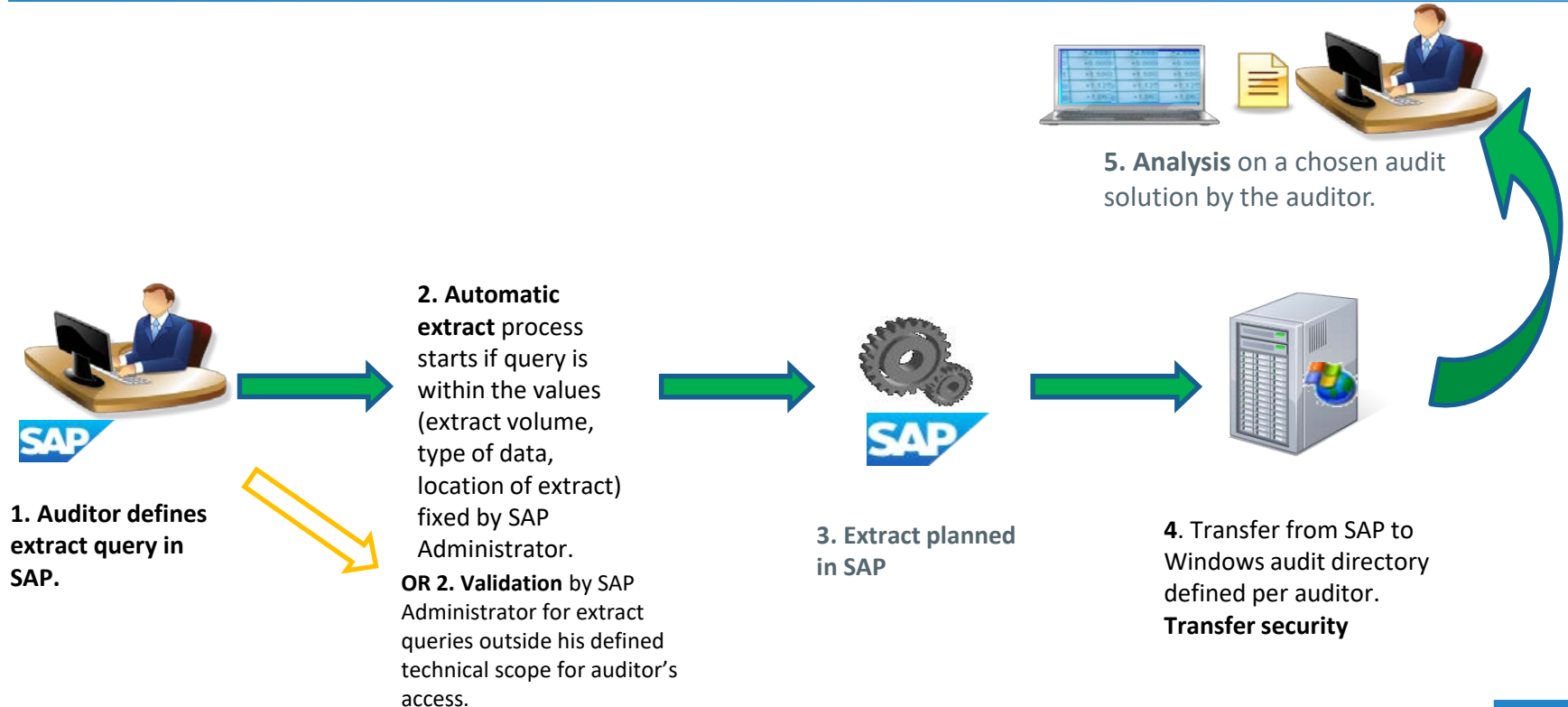
Aim of AEC



- Flexible extract definitions
 - Links between tables
 - Fixed and flexible variant definitions ...
- Customized extract scheduling
- Multiple data formats for use with ACL, IDEA, EXCEL ...
- Size limitations on extracted data to reduce data volumes if necessary
- Simplify tasks for IT resources and improve system performance
- Transparent SAP authorization management

Management of an extract query

Data extract process with AEC



The advantages of AEC



The advantages of AEC

- Auditors define and test data extracts in a certified SAP transaction without disturbing SAP CC and system administrators
- File size of extracts can be validated before start by the system administrator
- Zero risk of system failure and shutdown
- System provides small files on demand (in seconds), and manages larger files automatically after validation by system administrators if needed
- Regardless of the SAP database and operating systems, files are made available in a storage directory (where auditing software can access them)
- AEC is table based
- Large time gains

**AEC is a solution
built for:**

Internal auditors

External auditors

Tax auditors



- ✓ Simplified adherence to auditing and compliance requirements of internal and external auditors
- ✓ Autonomy and flexibility for extract definition by auditors
- ✓ Minimization of IT resources for audit workload
- ✓ Massive data volumes will no longer impact SAP KPI in a SLA
- ✓ Maximum integration with SAP systems as a SAP add-on
- ✓ AEC is the solution for extract based audit requirements

New features - highlights









AECv4 additional features for auditors

AEC now has the functionality to clean the data of unwanted/special characters during the extraction process allowing an **error free import into audit tools**.

Remove special characters from extract
Character used to replace special characters: Text Hexadecimal

Sometimes batch upload of data or copy and paste can lead to unwanted characters being introduced into data, for instance a horizontal tab character can cause problems when the extracted data is imported into audit tools since this character is used as a field separator in the .ais format.

Change View "Special characters for exclusion from extracts": Overview

New Entries      

xchars	Active	Hexa code	Description
C_RETURN	<input type="checkbox"/>	0D	Carriage Return
END_TEXT	<input type="checkbox"/>	03	End of text
HEADING	<input type="checkbox"/>	01	Start of heading
LINE_FEED	<input checked="" type="checkbox"/>	0A	Line Feed (LF)
START_TEXT	<input type="checkbox"/>	02	Start of text
TAB	<input checked="" type="checkbox"/>	09	Character Tabulation

You can add your own definitions and activate or deactivate the needed lines.

New features - highlights

AECv4 additional features for IT



Authority checks can be managed by authorization object and field name.



The objectives are:

- To limit the visibility of data for users in international groups and with many companies in a single SAP client
- Manage external auditor access to specific data in the case of a tax control

New features - highlights



AECv4 additional features for IT

- You can choose whether to use SAP standard authorization objects, customer defined authorization objects, or TJC delivered ones. We would recommend using the TJC objects to create AEC specific authorizations rather than modifying existing standard authorizations.
- If 'System closed' is not marked, all tables can be extracted, if an authorization check is marked as active then this authorization is checked if the field is present in the extract.
- If 'System closed' is marked, only tables listed in the 'Maintain permitted tables' can be extracted. If an authorization check is marked as active then this authorization is checked if the field is present in the extract and the table is maintained as accessible.
- 'Maintain emergency exceptions' allows free access to extract any table for defined users during a limited period e.g. in case of tax control.
- 'Maintain permitted tables' allows administrators to manage a list of tables which can be extracted by AEC – if a table doesn't appear in the list and the system is set as closed, AEC will not allow an extract to be created and will only show previously defined extracts meeting the new criteria.



Because Your Data Matters

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Conclusion



Thank You

Q & A

Appendix



New Features



AECv4 additional features for auditors

- Replace characters such as 'tab' by a defined character
- MD5/SHA1/SHA2 checksums can be calculated for all extract files
- Data masking of specific fields is possible
- User's pc can be used as final storage destination if user has specific strict authorizations
- Windows path can be used as final storage destination
- AEC can automatically select archive files to be used in an extract depending on the selection criteria
- More flexibility in selects definitions
- Improved performance for complicated selects such as large numbers of disjointed document numbers

Existing Features



AEC features for auditors

- Select SAP tables
- Include related tables (relevant tables are proposed by AEC)
- Select table fields
- Define table field order
- Define selection criteria at field level
- Add flexible selection criteria (such as «month (n-3) to (n-1)»)
- Estimate extract size
- Define run time, or periodic run time (daily, weekly, monthly, quarterly, yearly)
- Check running extracts, pending extracts, periodic extracts
- Full trace of finished extracts
- Test extract content online with sample data
- Define file split for large files (base on line numbers or file size)
- Create separate header file (with file content definition)
- Choose extract format (SAP AIS is the main format, csv and other formats are available)
- Select naming conventions for file names

Existing Features



AEC features for SAP administrators

- Runs on SAP systems
- On any release from 4.6C to ECC6
- Unicode and non Unicode systems
- No additional server required
- Installed via SAP Add-on
- Runs with any SAP operating systems
- Runs with any SAP database
- No file size limit
- Optimized run time
- Optimized file size for AIS format
- SAP authorizations management
- User definition
- May be installed in SOX environment
- Automation features (Extracts are run and managed automatically)
- Prohibited fixed and variable dates may be defined
- Prohibited time slots may be defined
- Maximum number of simultaneous work processes / extracts per table
- Select final storage directory for file extract





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