What is new in SAP Application Interface Framework 4.0

Alexander Bundschuh, Product Manager for SAP Cloud Platform Integration, SAP Process Orchestration & SAP Application Interface Framework
Sept 2018
PUBLIC
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SAP Application Interface Framework
A powerful framework for interface implementation, monitoring, and error handling
SAP Application Interface Framework

Product description

Key capabilities

- **Guided deployment of application interface logic**: Enable technical users to quickly add logic to interfaces with a guided, template-based approach that offers predefined customizations.

- **Reuse of components across multiple interfaces**: Implement interface logic in small, configurable components to enable reuse across multiple interfaces and technologies.

- **Standardized support for integration technologies**: Establish an open architecture that supports a broad range of integration technologies, enabling the reuse of logic and customization across interfaces.

- **Customization of authorizations**: Assign role-based authorizations to restrict access at an interface level or based on interface data.

- **Helps to implement Data Protection and Privacy measures**: Hide sensitive fields or structures in monitoring; record any changes in an audit log; record any access to personal data in an audit log; manage blocking and deletion of personal data.

- **Simplified monitoring, alerts, and error handling**: Monitor interfaces across technologies; alert users about errors; coordinate mass error handling, and empower business users to monitor and resolve business-related, non-technical interface errors without IT-involvement.
Enhanced Data Protection and Privacy capabilities at a glance

Master Guide Enhanced
- New chapter Data Protection and Privacy provides you with an overview of the personal data in SAP Application Interface Framework and with details about how to protect these data.
- See Master guide at help.sap.com

External Contact Enhanced
- New autonomous object replacing the external address of a recipient.
- Enables you to independently manage external contacts and to protect their personal data in the best possible way.

Read Access Log (New)
- Read access logging for the content of data messages and uploaded files.
- Enables you to answer questions about who accessed particular data within a specified time frame.

Change Log Enhanced
- Change logging for the content of data messages, value mappings, and external contacts.
- Enables you to check when a change was made, which employee made which change, the previous value, and the current value.

Data Archiving Enhanced
- New archiving objects and archiving programs for data messages, file adapter, and all related data.
- Enables you to use SAP Information Lifecycle Management (SAP ILM) for a more sophisticated and automated information lifecycle.

Blocking and Deletion (New)
- New SAP ILM objects for data messages, value mappings, and external contacts.
- Enables you to manage the blocking and deletion of personal data according to your legal obligations.
What is General Data Protection Regulation (GDPR)?

GDPR (EU Regulation 2016/679), effective 25 May 2018, gives individuals control and protection of their personal data in a networked digital world. Data controllers (why personal data is collected and used) and processors (process on behalf of controllers) are most affected. It simplifies prior EU regulation replacing the 1995 data protection directive.

Penalties up to

<table>
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<tr>
<th>4% of annual global revenue</th>
<th>OR</th>
<th>2% of annual global revenue</th>
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<tr>
<td>or €20million</td>
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<td>or €10million</td>
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whichsoever is greater

“...effective, proportionate and dissuasive.”

Applies to:

Organisations who offer goods or services to, or monitor the behaviour of, EU data subjects. Processing and holding personal data of EU residents.

Protect other’s personal data with the same respect you expect to have your personal data protected.
The personal data lifecycle

Data Privacy Impact Assessment

Active Data

Legitimate purpose for ongoing processing
Risks are assessed and mitigated, individuals informed, processes and activities documented, active data is protected, and alerts sounded for inappropriate use or access.

Archived Data
Lawful retention
Other laws and regulations may dictate if data must be retained for a longer time period

Deleted Data
No longer required
No longer needed for original purpose OR “right to erasure”.

Example
- Customer transfers personal data through an interface, access needs to be tracked, and data needs to be blocked/deleted after a period of time.
Accessing Personal Data

Limit access to personal data in the data messages itself, to value mappings, to external contacts, to uploaded files, to read access log, and to change log via dedicated authorization objects

- AIF comes with predefined role templates, e.g., for developer, business user, power user, auditor, data protection officer, etc.
- Fine granular access control via Interface-specific and key field-specific authorization objects

Restrict display of personal data in monitoring and error handling by hiding either complete structures or dedicated fields of a structure containing personal data
Accessing Personal Data

New: personal data of external contacts is protected via own object replacing external address of a recipient
Providing Read Access Log

**New:** Monitor and log read access to personal data

- Mark fields that hold personal data as read log relevant in AIF customizing (transaction code /AIF/READ_LOG_CUST)
- Read log entries are written in the following cases
  - Personal data is displayed in monitoring and error handling
  - Personal data is displayed in the change log
  - Personal data is uploaded via file adapter
- Read log can be accessed by administrators via transaction code /AIF/READ_LOG
Providing Change Log

Track changes made to (personal) data

- Change logging is always enabled for changes of data messages, value mappings, and external contacts
- For each change, date and time of change, user ID who did the actual change, new and old change, etc., are logged
- Change log can be accessed by administrators via transaction code /AIF/CHANGE_LOG
  - transaction code /AIF/CHANGE_LOG replaces transaction code /AIF/EDCHANGES
  - **New:** change log for value mappings, and external contacts
Data Archiving

New archiving objects replacing /AIF/PERSX

- Use archiving object /AIF/MES to archive the following types of data
  - Data messages
  - XML persistence
  - Data changes
  - Application logs
  - Structured persistence
  - Read access logs

- Use archiving object /AIF/FILE to archive the following types of data
  - File adapter logs
  - Application logs
Blocking and Deletion of Personal Data
Lifecycle of your personal data

Create → End of business → End of purpose → Delete

Retention period
Residence period
Blocking and Deletion of Personal Data

**New**: Use SAP Information Lifecycle Management (SAP ILM) for blocking and deleting personal data according to your legal obligations

- New SAP ILM objects for data messages, value mappings, external contacts, and snapshots
- Set up SAP ILM policies for defining residence and retention rules
- Blocked data can be accessed by AIF Auditor only
- Set up and schedule destruction of archived data via transaction code `ILM_DESTRUCTION`
Further Information

- SAP Application Interface Framework at SAP Help Portal
  - Release notes, master guide, installation and upgrade guide, security guide, etc.
- SAP Application Interface Framework FAQ note
Thank you.

Alexander Bundschuh
alexander.bundschuh@sap.com