AERO S4 Integrations

Thursday, March 28, 2024   11:25 AM
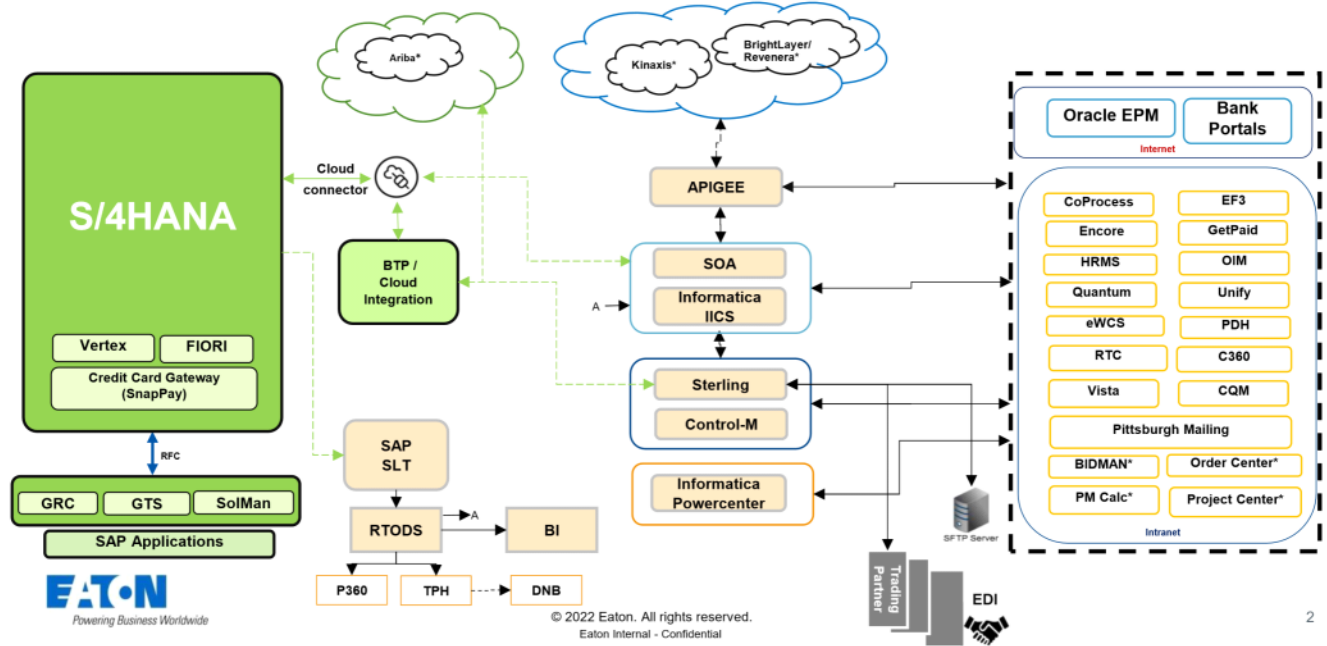

Aero: S/4HANA Integration Phase 1 (Global Template Release)
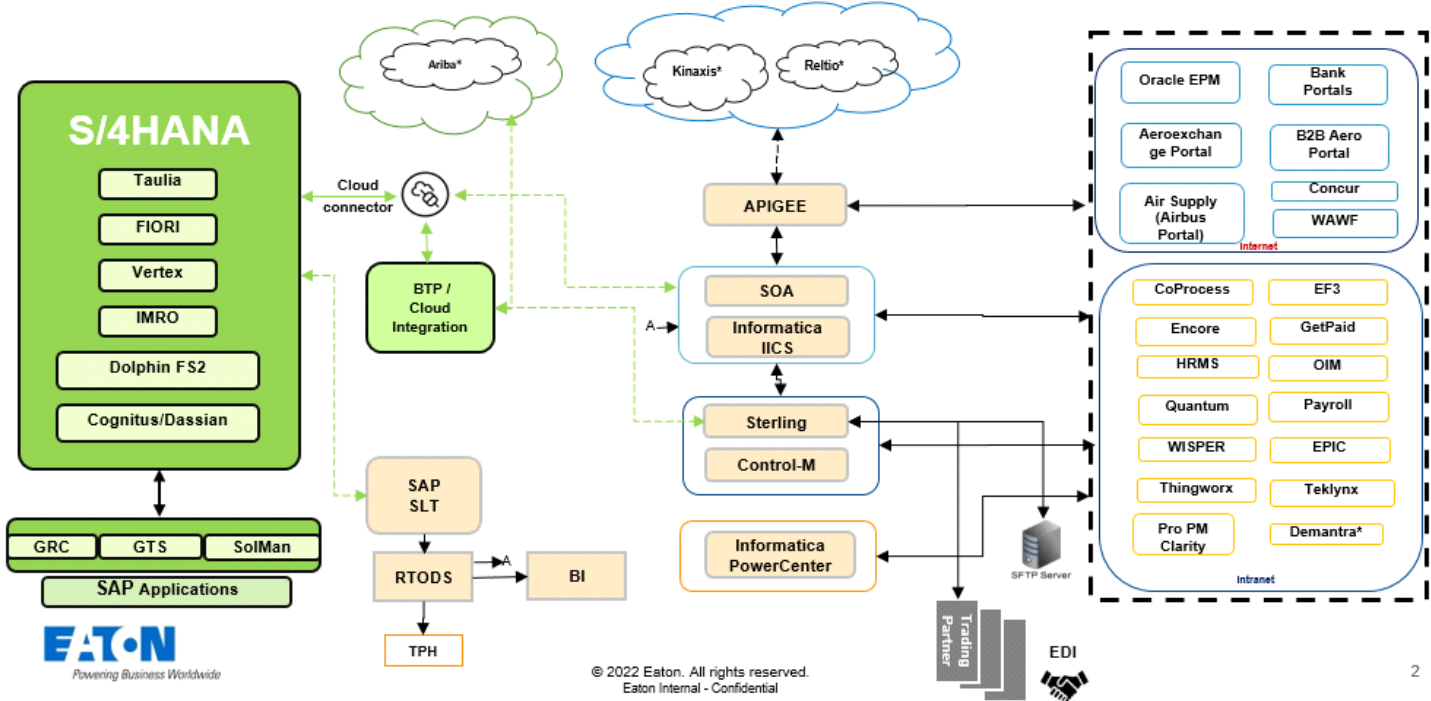
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Explore, change and sustain
Evolution of the digital process

S/4 Integration: ES-A
September 05,2022

ES-A: S/4HANA Integration (Order Hub)
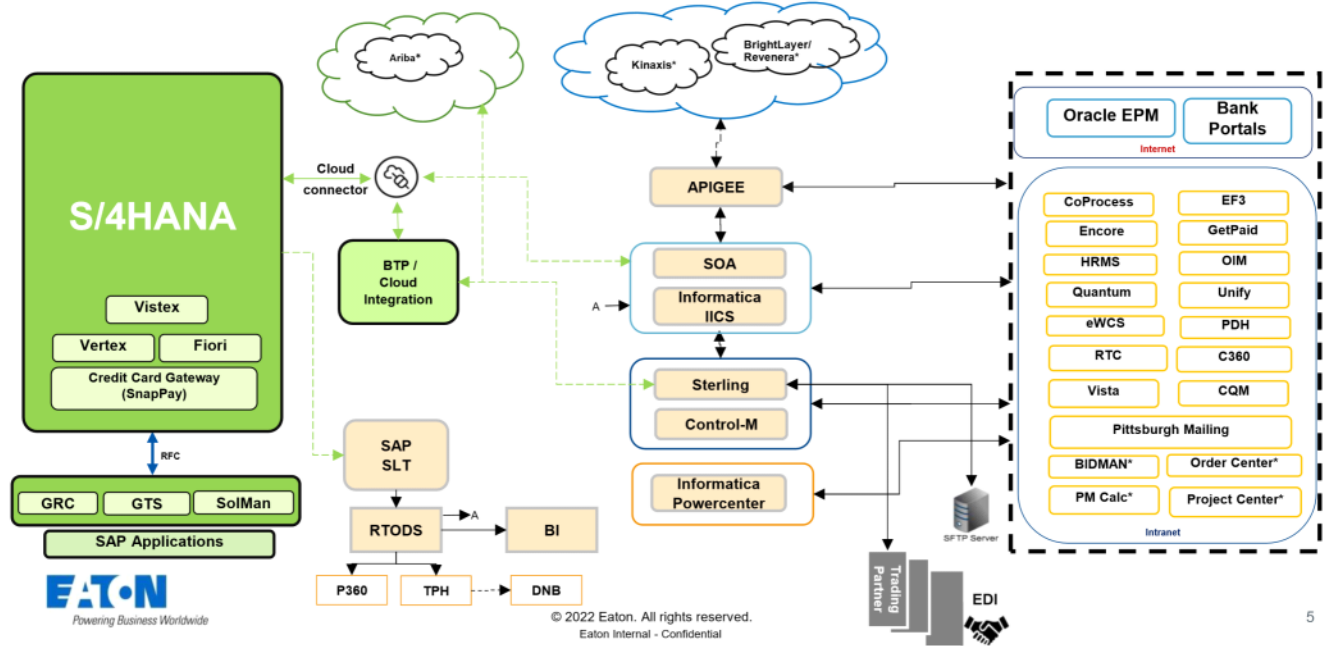
2

ES-A

Assumptions:
- No existing internal/external systems to be phased out.
- Existing middlewares are not to be phased out.
- The connection from BTP to APIGEE is for any services exposed out of BTP from S/4 which needs to be consumed further for any other applications
- API interfaces with non-SAP boundary systems would be via APIGEE or SOA
- BATCH interfaces are File based interfaces which will be handled via Control M
- CDC type of interfaces are Data intensive interfaces which will be handled via SLT

Questions:
- Does Oracle EPM replace Oracle Hyperion in parallel of SAP S/4 implementation? What change(s) it means for SAP connecting to Oracle EPM/Hyperion.

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ES-A: S/4HANA Integration (Order Hub)

SAP Cloud — Non-SAP Cloud
* Release TBD — New Connections — Existing Eaton Middleware

S/4HANA
- Vistex
- Vertex
- Fiori
- Credit Card Gateway (SnapPay)

RFC

GRC | GTS | SolMan
SAP Applications

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Ariba*

Kinaxis* — BrightLayer/Revenera*

Cloud connector

BTP / Cloud Integration

SAP SLT

RTODS → A → BI

P360 | TPH ---> DNB

APIGEE

SOA
Informatica IICS
A →

Sterling
Control-M

Informatica Powercenter

Oracle EPM | Bank Portals
Internet

CoProcess	EF3
Encore	GetPaid
HRMS	OIM
Quantum	Unify
eWCS	PDH
RTC	C360
Vista	CQM
Pittsburgh Mailing	
BIDMAN*	Order Center*
PM Calc*	Project Center*

Intranet

SFTP Server

Trading Partner — EDI

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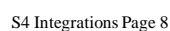Eaton Internal - Confidential

5

ES-A

Assumptions:
- No existing internal/external systems to be phased out.
- Existing middlewares are not to be phased out.
- The connection from BTP to APIGEE is for any services exposed out of BTP from S/4 which needs to be consumed further for any other applications
- API interfaces with non-SAP boundary systems would be via APIGEE or SOA
- BATCH interfaces are File based interfaces which will be handled via Control M within the Eaton Network, external SFTP transfers will be performed through Sterling Integrator
- CDC type of interfaces are data change capture interfaces which will be handled via SLT

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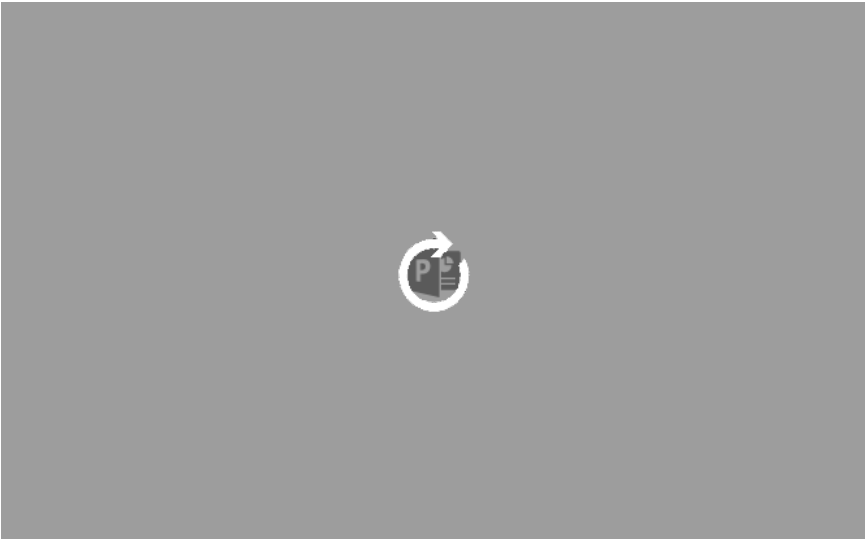
ALL interfaces - SAP

Monday, March 27, 2023   12:39 PM

REFARCH_S4 Programs Reference Architecture.url
REFARCH_ESA S4 Order Hub.url

ERP Integrations Patterns - SAP

Thursday, March 28, 2024   11:26 AM

[ERP Integration Patterns (SAP)](#)

ERP Integration Patterns (SAP)

Eaton ERP Integration Approaches

v0.01 - Enterprise Architecture

Executive Summary

Objectives

Provide the architecture community with high-level guidelines and guardrails for appropriate integration patterns with our ERP systems to ensure that all solution architects are following similar patterns when integrating with our ERP systems

Approach

- Outline approved approaches per ERP system (currently only SAP platforms are documented)

Key take away

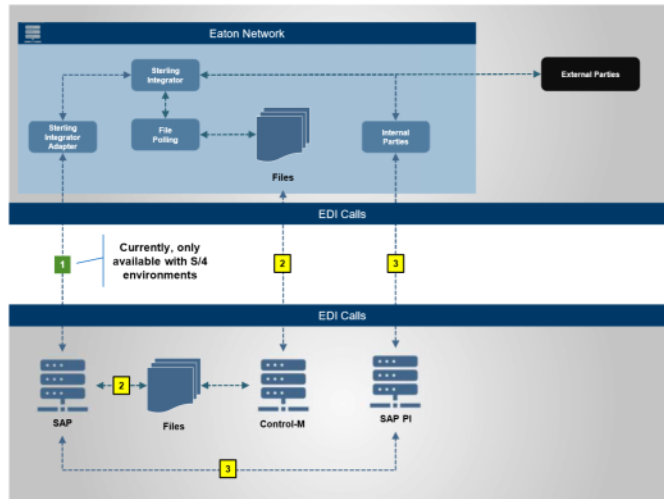- Which approach and middleware tools may be used in each environment per pattern

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SAP ERP - EDI Integration Approaches

DRAFT

Usage	Preferred Approach	Style
Approved	1. **SAP and Sterling Integrator IDOC Connector** communication directly between Sterling Integration and the SAP Netweaver Stack; this is an RFC based communication channel	**All** • Released IDOCs (SAP version of EDI)
Exception Required	2. **Flat-file based transfer of EDI messages to and from SAP environment;** *requires additional security, infrastructure, and development negatively impacts run rates and time-to-market* 3. **SAP PI** should only be used for existing PI solutions; we should no longer be expanding our usage of PI; longer term the PI interfaces should be migrated to other platforms such as BTP or Informatica	**All** • Flat File EDI • Custom IDOCs • IDOC extensions • SOAP messages • While supported by Sterling Integrator and SAP these are not currently in use for our EDI transactions; Review with care and consider the OCM impacts prior to implementing
EA Review Required	Any EDI based approach for an SAP environment not listed in these patterns / approaches	

SAP ECC - API Integration Approaches

Not Approved for Restricted Data
(ITAR, EAR, CUI, CTD, etc.)

DRAFT

Eaton Network

SAP Apps

Non-SAP Apps

SAP Cloud Applications

Non-SAP Cloud Apps

SOA

API Calls

APIGEE
API Management

Public

Public

SAP CPI (NEO) – Integration Suite

SAP BTP (Cloud Foundry) – Integration Suite

API Calls

ECC

SAP PI

Outbound from SAP goes through proxy, inbound through Cloud Connector

SAP Cloud Connector/Proxy

Vendor Provided Connector

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JSN0
JSN1
JSN5
JSN2
JSN3
JSN4
JSN7

Usage	Preferred Approach	Style
Approved	1. **Direct SAP RFC/BAPI** communication between NetWeaver stacks 2. **SAP Cloud Connector** ...nication between ECC and the SAP Cloud base... uite of tools 3. **SAP BTP Integration S...** used for newly created API integrations... ables additional capabilities, future pro... d for S/4 integrations 4. **Pre-built Integration Suite content** for ECC to SAP Cloud Applications should be leveraged to reduce time-to-market and development costs; *validate tha... can be met* 5. **Registered APIs** connecting from A... 6. **Custom developed BTP API** connecting to APIGEE... *imperative that we re-use existing APIs an... composable future*	**All** • Released BAPI/RFC • Released WebServices • IDOC **ECC to Cloud Apps** • APIGEE API
Exception Required	7. **Vendor provided pre-built integration from BTP to Non-SAP Cloud aps**; *ensure we are not complicating landscape architecture before approving* 8. **SAP CPI Integration Suite** should only be used for solution... that have not been migrated to BTP (i.e. Salesforce, existing eInvoicing applications, etc.); *avoid adding new integrations; move to BTP when possible* 9. **SAP PI should only be used for existing PI solutions**; we should no longer be expanding our usage of PI; longer term the PI interfaces should be migrated to other platforms such as BTP or Informatica	• Custom/Extended BAPI/RFC • ...released BAPI/RFC • ...tom/Extended WebServices • Non-released WebServices • Usage of the PI platform **ECC to Cloud Apps** • Custom Integration Suite API
EA Review Required	10. **Vendor Provided Connector / Add-on** requires review from the EA team to approve usage prior to implementing, *in many cases this is the preferred option but must be vetted first* **Any API based approach for ECC not listed in these patterns / approaches**	**All** • New vendor provided... • ...a • A restful service • *ECC Restful GET APIs should be developed and sourced from the HANA XSA environment*

JSN0   Is this applicable for custom apps ? Should this a separate pattern ? [@Lore, Chris] - Pls confirm
Joshi, Shilna N, 2023-09-19T14:19:34.897

LC0 0   Pattern is the same regardless. Custom apps or not. If it is a custom SAP to SAP NetWeaver we can still use standard RFC/BAPI communications between NetWeaver stacks. We do this today and will continue to in the future.
Lore, Chris, 2023-09-19T18:19:03.582

JSN1   (2) Cloud connector is only used for inbound communications to SAP ECC. Outbound connections goes through network proxy. [@Lore, Chris] - Pls correct the diagram
Joshi, Shilna N, 2023-09-19T14:22:29.503

LC1 0   Updated with comment and adding proxy to the SAP Cloud Connector.
Lore, Chris, 2023-09-19T19:07:56.868

JSN2   (5) Consumption of all APIs will be through Apigee
Joshi, Shilna N, 2023-09-19T14:28:00.833

LC2 0   How would you reword 5?
Lore, Chris, 2023-09-19T18:32:30.055

JSN3   (6) Integration Suite will publish APIs from SAP ECC to Apigee
Joshi, Shilna N, 2023-09-19T14:28:22.037

LC3 0   Yes but does this really need to show that level of detail? How would you like to reword this?
Lore, Chris, 2023-09-19T18:33:26.354

JSN4   (7) SAP provided connector or third party connector review before approving. Examples - Salesforce, India tax - GST etc.

This would include an external API that is not re-usable (point to point) across applications.
Joshi, Shilna N, 2023-09-19T14:34:25.790

LC4 0   Is there an action here?
Lore, Chris, 2023-09-19T18:34:02.245

JSN5   (4) This is pre-built mappings
Joshi, Shilna N, 2023-09-19T14:34:47.998

LC5 0   Roughly yes but there are also additional capabilities built into the iFlows depending on the pre-built scenario/function.
Lore, Chris, 2023-09-19T18:31:45.148

JSN6   (8) Look for opportunities where the CPI integrations can be migrated to IS.

Joshi, Shilna N, 2023-09-19T14:37:18.074

LC6 0   BTP is IS, commented added to migrate to BTP when possible
Lore, Chris, 2023-09-19T18:16:24.453

JSN7   [@Lore, Chris] - Please clarify the difference between 7 and 10.
Joshi, Shilna N, 2023-09-19T14:39:36.058

LC7 0   10 does not go through BTP. As an example Vertex provides an RFC/API structure and their own gateway / RFC adapter that we connect to. We install the addon and use it to directly connect to their environment. The same is true of Taulia and other SAP partners.
Lore, Chris, 2023-09-19T18:35:27.450

JSN8   The enterprise API pattern with layered architecture is not covered. The data API will be created in Integration Suite, those will connect to Oracle SOA suite where the process API will be laid out. [@Lore, Chris] , [@Gawai, Sanjay] - Pls add
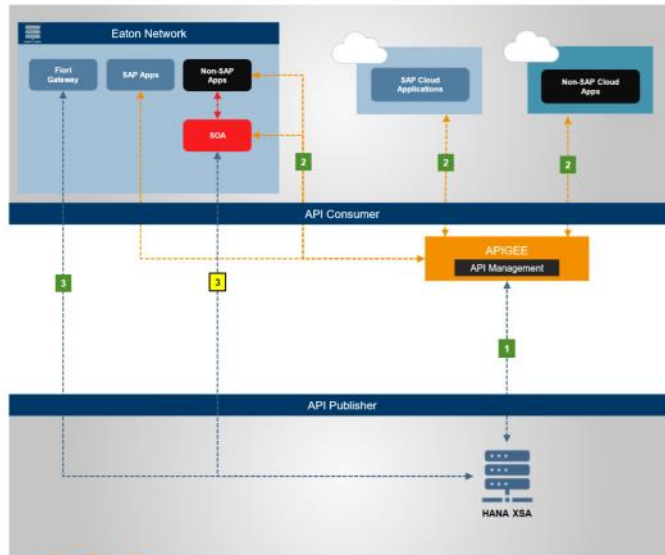*Joshi, Shilna N, 2023-09-19T14:45:21.250*

LC8 0   Would a comment suffice? That's a lot of detail to layer into a high-level image. Would it maybe make more sense to link to the API standards from this document?
Lore, Chris, 2023-09-19T18:36:15.592

SAP ECC – Restful GET API Approach

DRAFT

Not Approved for Restricted Data (ITAR, EAR, CUI, CTD, etc.)

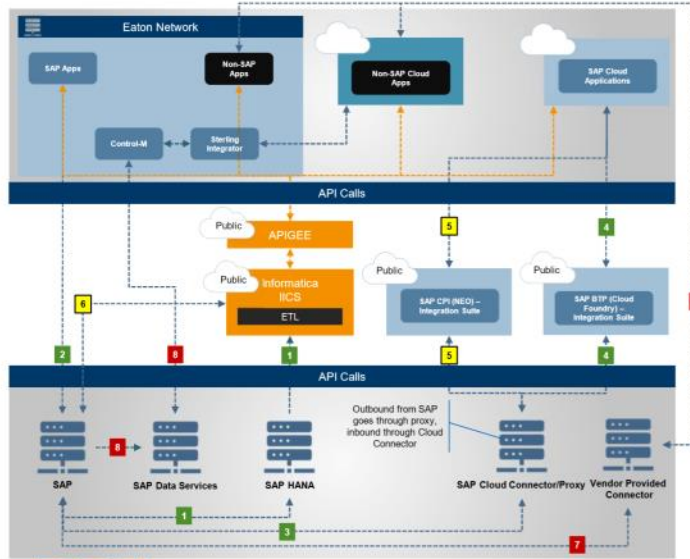| Usage	Preferred Approach	Style
Approved	1. Direct HANA API communication between HANA and APIGEE 2. Registered APIs connecting from APIGEE 3. Fiori Gateway connecting HANA; consumption of HANA XSA data via a Fiori application	**All** • Released APIs • ODATA V2/V4 **ECC to Cloud Apps** • APIGEE API
Exception Required	4. HANA to SOA ODATA connections; ensure we are not complicating landscape architecture before approving, and confirm complexity of the ODATA selections; longer term will likely move to BTP and HANA connectivity, however, there have been complications with connecting an on-premise HANA environment to	**All** • Custom/Extended BAPI/RFC • Non-released BAPI/RFC • Custom/Extended WebServices • Non-released WebServices • Usage of the PI platform
EA Review Required	Any API based approach for ECC not listed in these patterns / approaches	**All** • Create, Update, or Delete APIs • Direct user access • XSJ

JSN0   Is this an approved pattern ? This needs to be reviewed, the APIs that are exposed from HANA database must follow the enterprise API standards.
[@Lore, Chris], [@Gawai, Sanjay] - Please review and confirm the rationale.
Joshi, Shilna N, 2023-09-19T14:49:14.978

JSN1   Need further discussion on this. It has not been a good experience with using HANA APIs as data APIs - [@Lore, Chris], [@Gawai, Sanjay] - Please review and confirm the rationale.
Joshi, Shilna N, 2023-09-19T14:51:12.563

LC1 0   We have to offload API calls from ECC as the number of calls into the ERP itself are causing additional load and strain in the environment.   These can be moved to an exception basis, but we have to offload calls these direct calls into the ERP. Long term this should move to an HPDS but for now we will need to continue with the HANA API development in limited fashion.
Lore, Chris, 2023-09-19T18:29:52.192

SAP ERP – Bulk API Approach

DRAFT

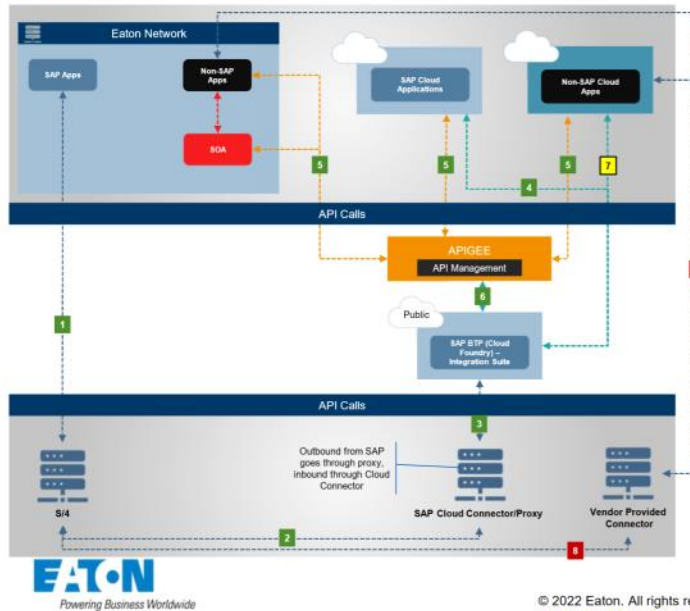Not Approved for Restricted Data
(ITAR, EAR, CUI, CTD, etc.)

Usage	Preferred Approach	Style
Approved	1. **HANA IICS extract** this is the *most preferred* approach and can be used when table replication with timestamps are setup between SAP and HANA through SLT; allows for delta and incremental loads (outbound from SAP only) 2. **Direct SAP RFC/BAPI** prebuilt communication between NetWeaver stacks 3. **SAP Cloud Connector** allows communication between SAP and the SAP Cloud based integration suite of tools 4. **SAP BTP Integration Suite** should be used for newly created API integrations with SAP where prebuilt APIs exist; *enables additional capabilities, future proof, heavily used for S/4 integrations*	**All** • Released WebServices • IDOC • See Flat File Slide for file extracts **SAP to Cloud Apps** • Sterling Integrator
Exception Required	5. **Pre-built Integration Suite content** for SAP to SAP Cloud Applications should be leveraged to reduce time-to-market and development costs; *validate that requirements can be met; can only be used for ECC* 6. **SAP to IICS** direct communications to IICS from SAP, currently used for IDOCs; repository data will be stored in HANA	**All** • Custom/Extended Bulk APIs with BTP • Custom/Extended IDOCs **ECC to Cloud Apps** • Custom BTP Integration Suite API
EA Review Required	7. **Vendor Provided Connector / Add-on** requires review from the EA team to approve usage prior to implementing, *in many cases this is the preferred option but must be vetted first* 8. **SAP Data Services** limited use case setup with , *in many cases this is the preferred option but must be vetted first* 9. Any bulk API based approach for SAP not listed in these patterns / approaches	**All** • New vendor provided package • ODATA restful service

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SAP S/4 - API Integration Approaches

DRAFT

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Usage	Preferred Approach	Style
Approved	1. **Direct SAP RFC/BAPI** communication between NetWeaver stacks 2. **SAP Cloud Connector** allows communication between ECC and the SAP Cloud based integration suite of tools 3. **SAP BTP Integration Suite** should be used for newly created API integrations with ECC; *enables additional capabilities, future proof, heavily used for S/4 integrations* 4. **Pre-built Integration Suite content** for ECC to SAP Cloud Applications should be leveraged to reduce time-to-market and development costs; *validate that requirements can be met* 5. **Registered APIs** connecting **from APIGEE** 6. **Custom developed BTP API** connecting **to APIGEE**; *imperative that we re-use existing APIs and focus on a composable future*	**All** • Whitelisted ODATA • Released BAPI/RFC • Released WebServices **ECC to Cloud Apps** • APIGEE API
Exception Required	7. **Vendor provided pre-built integration from BTP to Non-SAP Cloud aps**; *ensure we are not complicating landscape architecture before approving*	**All** • Non-released /Custom/Extended ODATA • Non-released /Custom/Extended BAPI/RFC • Non-released /Custom/Extended WebServices • IDOC **ECC to Cloud Apps** • Custom Integration Suite API
EA Review Required	8. **Vendor Provided Connector / Add-on** requires review from the EA team to approve usage prior to implementing, *in many cases this is the preferred option but must be vetted first* **Any API based approach for ECC not listed in these patterns / approaches**	**All** • New vendor provided package

SAP S/4 – Bulk API Approach
DRAFT

Not Approved for Restricted Data (ITAR, EAR, CUI, CTD, etc.)

Usage	Preferred Approach	Style
Approved	1. **HANA IICS extract** this is the *most preferred* approach and can be used when appropriate data extracts exist in S/4, if this do not exist SLT can be used to push data to the central HANA instance; allows for delta and incremental loads (outbound from SAP only) 2. **Direct SAP RFC/BAPI** prebuilt communication between NetWeaver stacks 3. **SAP Cloud Connector** allows communication between SAP and the SAP Cloud based integration suite of tools 4. **SAP BTP Integration Suite** should be used for newly created API integrations with SAP where prebuilt APIs exist	**All** • Released WebServices • Whitelisted ODATA Extractor Services • IDOC • See Flat File Slide for file extracts **SAP to Cloud Apps** • Sterling Integrator
Exception Required	5. **SAP to IICS** direct communications to IICS from SAP, currently used for IDOCs; repository data will be stored in HANA	**All** • Custom/Extended Bulk APIs with BTP • Custom/Extended IDOCs **ECC to Cloud Apps** • Custom BTP Integration Suite API
EA Review Required	7. **Vendor Provided Connector / Add-on** requires review from the EA team to approve usage prior to implementing, *in many cases this is the preferred option but must be vetted first* **Any bulk API based approach for SAP not listed in these patterns / approaches**	**All** • New vendor provided package • ODATA restful service

SAP ERP – File Based Approaches
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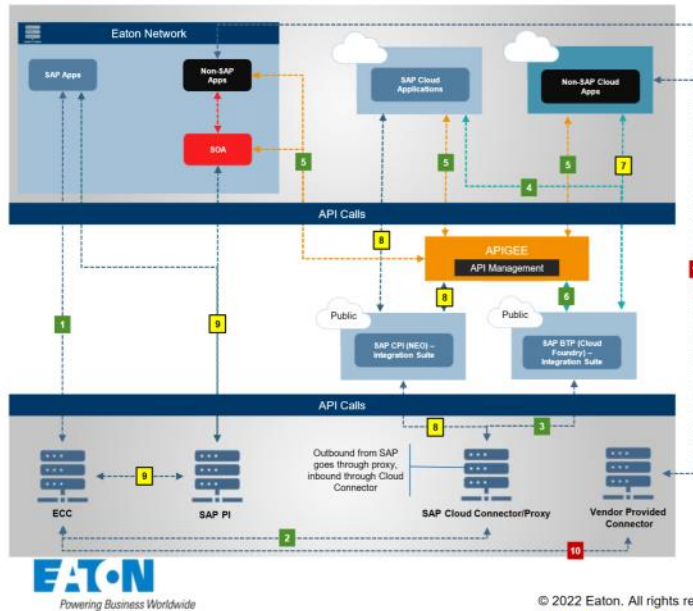Approved for Restricted Data
(ITAR, EAR, CUI, CTD, etc.)

Usage	Preferred Approach	Style
Approved	1. **Control-M AFT** this tool should be used for moving files across the Eaton network 2. **SFTP to external parties via Sterling Integrator** sending or receiving data to external parties in file-based format should be accomplished through Sterling Integrator; these files may be fed through Control-M when associated to a scheduled job or the file poler may read directly from an SAP directly if no scheduling or job orchestration is required	**All** • Flat file extract • IDOC
Exception Required	3. **BTP SFTP transfer;** *requires additional security, infrastructure, and development negatively impacts run rates and time-to-market*	**SAP BTP** • Flat File when orchestration of the file and other process messages is required; i.e. I send an order to a customer portal to create the order and then attach a file to the previously created order
EA Review Required	Any flat-file based approach for an SAP environment not listed in these patterns / approaches	

SAP ECC – Event Approach
Not Approved for Restricted Data (ITAR, EAR, CUI, CTD, etc.)

DRAFT – Approach will be adjusted to include Kafka when it is available

Usage	Preferred Approach	Style
Approved	1. **Direct SAP RFC/BAPI** communication between NetWeaver stacks 2. **SAP Cloud Connector** allows communication between ECC and the SAP Cloud based integration suite of tools 3. **SAP BTP Integration Suite** should be used for newly created API integrations with ECC; *enables additional capabilities, future proof, heavily used for S/4 integrations* 4. **Pre-built Integration Suite content** for ECC to SAP Cloud Applications should be leveraged to reduce time-to-market and development costs; *validate that requirements can be met* 5. **Registered APIs** connecting from APIGEE 6. **Custom developed BTP API** connecting to APIGEE; *imperative that we re-use existing APIs and focus on a composable future*	**All** • IDOC • Released Asynch WebServices **ECC to Cloud Apps** • APIGEE API
Exception Required	7. **Vendor provided pre-built integration** from BTP to Non-SAP Cloud aps; *ensure we are not complicating landscape architecture before approving* 8. **SAP CPI Integration Suite** should only be used for solutions that have not been migrated to BTP (i.e. Salesforce, existing eInvoicing applications, etc.); *avoid adding new integrations* 9. **SAP PI** should only be used for existing PI solutions; we should no longer be expanding our usage of PI; longer term the PI interfaces should be migrated to other platforms such as BTP or Informatica	**All** • Custom/Extended IDOC • Custom/Extended Asynch WebServices • Non-released Asynch WebServices • Usage of the PI platform **ECC to Cloud Apps** • Custom Integration Suite Events
EA Review Required	10. **Vendor Provided Connector / Add-on** requires review from the EA team to approve usage prior to implementing, *in many cases this is the preferred option but must be vetted first* Any API based approach for ECC not listed in these patterns / approaches; this approach should not be used for bulk event processing, that should align to the bulk api approach	**All** • New vendor provided package

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SAP S/4 – Event Approach

DRAFT – Approach will be adjusted to include Kafka when it is available

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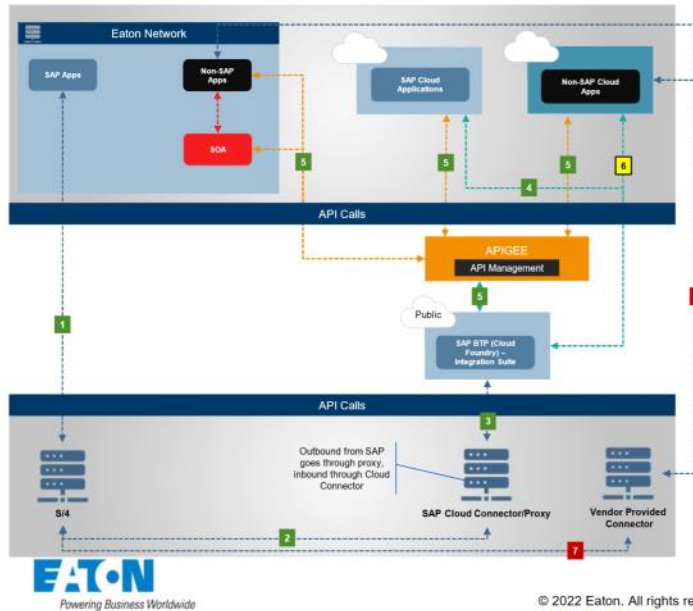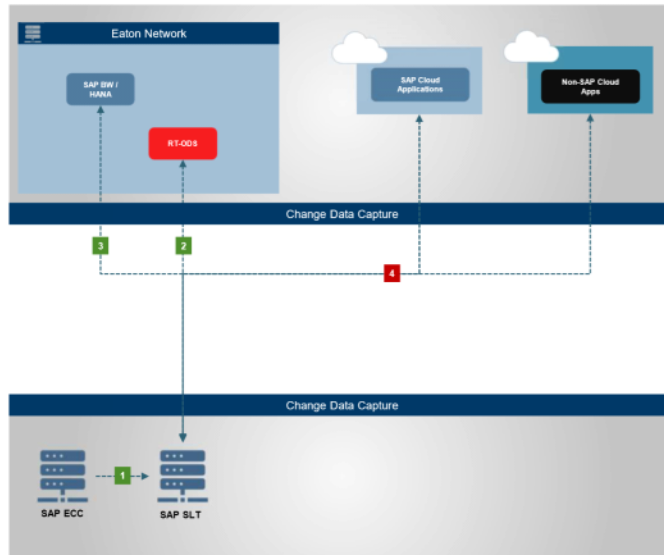| Usage	Preferred Approach	Style
Approved	1. **Direct SAP RFC/BAPI** communication between NetWeaver stacks 2. **SAP Cloud Connector** allows communication between ECC and the SAP Cloud based integration suite of tools 3. **SAP BTP Integration Suite** should be used for newly created API integrations with ECC; *enables additional capabilities, future proof, heavily used for S/4 integrations* 4. **Pre-built Integration Suite content** for S/4 to SAP Cloud Applications should be leveraged to reduce time-to-market and development costs; *validate that requirements can be met* 5. **Registered APIs** connecting **from APIGEE that are** processed via events	**All** • Enterprise Messages with Event Mesh • IDOC • Released Asynch WebServices **ECC to Cloud Apps** • APIGEE API
Exception Required	6. **Vendor provided pre-built integration from BTP to Non-SAP Cloud aps:** *ensure we are not complicating landscape architecture before approving*	**All** • Custom/Extended IDOC • Custom/Extended Asynch WebServices • Non-released Asynch WebServices • Usage of the PI platform **ECC to Cloud Apps** • Custom Integration Suite Events
EA Review Required	7. **Vendor Provided Connector / Add-on** requires review from the EA team to approve usage prior to implementing, *in many cases this is the preferred option but must be vetted first* Any API based approach for ECC not listed in these patterns / approaches; this approach should not be used for bulk event processing, that should align to the bulk api approach	**All** • New vendor provided package

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SAP ECC – Change Data Capture Approach
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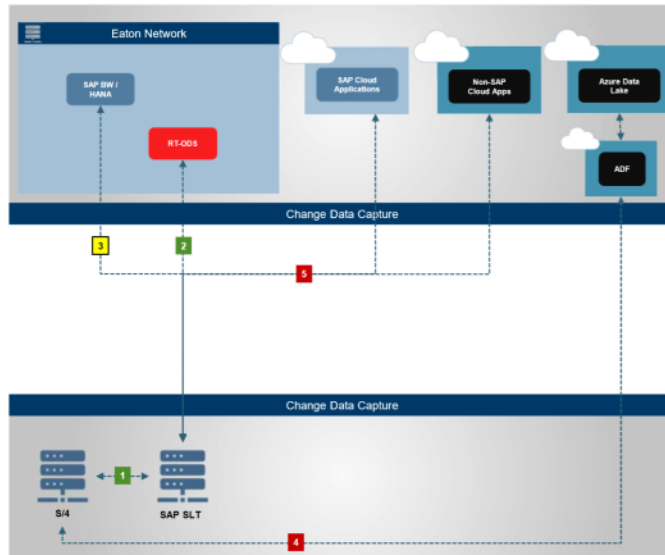Approved for Restricted Data - IF TARGET IS OF APPROPRIATE LEVEL
(ITAR, EAR, CUI, CTD, etc.)

Usage	Preferred Approach	Style
Approved	1. **SAP SLT** standard SAP table change capture application 2. **Real Time ODS** allows communication between ECC and the various analytics tools throughout the landscape, in some limited cases may be used to source data for non-analytics applications with EA approval 3. **SAP BW HANA** used for operational reporting, bulk API processes, and RESTFUL get messages *Please note that the change data capture scenario does not currently support transfer of long texts that is stored in the central SAP long text tables, each table must be vetted to ensure no restricted data is in use, and some tables may not be added to SLT due to the size and central performance impacts on the DB. In some limited scenarios we have seen short dumps in ECC when it is enabled for SLT.*	**All** • SAP SLT • SAP BW / HANA • Real Time ODS
Exception Required		All
EA Review Required	4. **SAP SLT direct communication to a cloud application** requires review from the EA team to approve usage prior to implementing, *in some limited use cases this may be the preferred option but must be vetted first* **Any change data captured based approach for ECC not listed in these patterns / approaches**	All

SAP S/4 – Change Data Capture Approach

DRAFT

Usage	Preferred Approach	Style
Approved	1. **SAP SLT** standard SAP table change capture application 2. **Real Time ODS** allows communication between ECC and the various analytics tools throughout the landscape, in some limited cases may be used to source data for non-analytics applications with EA approval *Please note that the change data capture scenario does not currently support transfer of long texts that is stored in the central SAP long text tables, each table must be vetted to ensure no restricted data is in use, and some tables may not be added to SLT due to the size and central performance impacts on the DB. In some limited scenarios we have seen short dumps in ECC when it is enabled for SLT.*	All • CDS Extraction Views • SAP SLT • SAP BW / HANA • Real Time ODS
Exception Required	3. **SAP BW HANA** used for operational reporting and bulk APIs with S/4; we may need to harmonize all SAP ERP data into this layer longer term, but it is not currently in scope	All
EA Review Required	4. **S/4 Microsoft Azure Data Factory to Azure Data Lake** this pattern is under review and will likely be the means for moving data from a cloud hosted SAP environment to Azure Data Lake or other Cloud based applications 5. **SAP SLT direct communication to a cloud application** requires review from the EA team to approve usage prior to implementing, *in some limited use cases this may be the preferred option but must be vetted first* **Any change data captured based approach for ECC not listed in these patterns / approaches**	All

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ERP Integration Decision Tree

AFT & sFTP are the only approved approaches for transferring controlled technical data

Start

EDI? — Yes → SAP ERP <-> EDI Approach / Oracle EBS <-> EDI Approach / Other ERP <-> EDI Approach

Real-Time API? — Yes → Mass Update Triggers Preventable? — Yes → Payload Size < # MB? — Yes → Target is API Based? — Yes → Enough API Calls Available? — Yes → SAP ECC <-> API Approach / Oracle EBS <-> API Approach / SAP S/4 <-> API Approach / Other ERP <-> API Approach

Bulk / Batch? — Yes → SAP ERP <-> Bulk / Batch Approach / Oracle EBS <-> Bulk / Batch Approach / Other ERP <-> Bulk / Batch Approach

Event Based? — Yes → SAP ECC <-> Event Approach / Oracle EBS <-> Event Approach / SAP S/4 <-> Event Approach / Other ERP <-> Event Approach

No → SAP ERP <-> Change Data Capture Approach / Oracle EBS <-> Change Data Capture Approach / SAP S/4 <-> Change Data Capture Approach / Other ERP <-> Change Data Capture Approach

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BTP IS / CPI missing role for testing APIs

Thursday, April 4, 2024   9:11 AM

7:37 AM

Hi Diana

My id in BTP IS and CPI is probably missing a role which does not allow me to test APIs in BTP IS / CPI.....do you know what additional role I need to request to be able to do that?

Basis is saying access is same, but it is still not working

Visuvasam, Diana 7:40 AM

you should have ESB Message Send role.

Visuvasam, Diana 7:41 AM

you should have ESB Message Send role.

👍 1

but basis might have just added the same role collection for all

- ## SAPOrderManagement-v1
  Salesorders
  Shipments