



Introduction to **Integration Advisor**

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June, 2020

INTERNAL

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Agenda

Integration Content Building - Current Situation

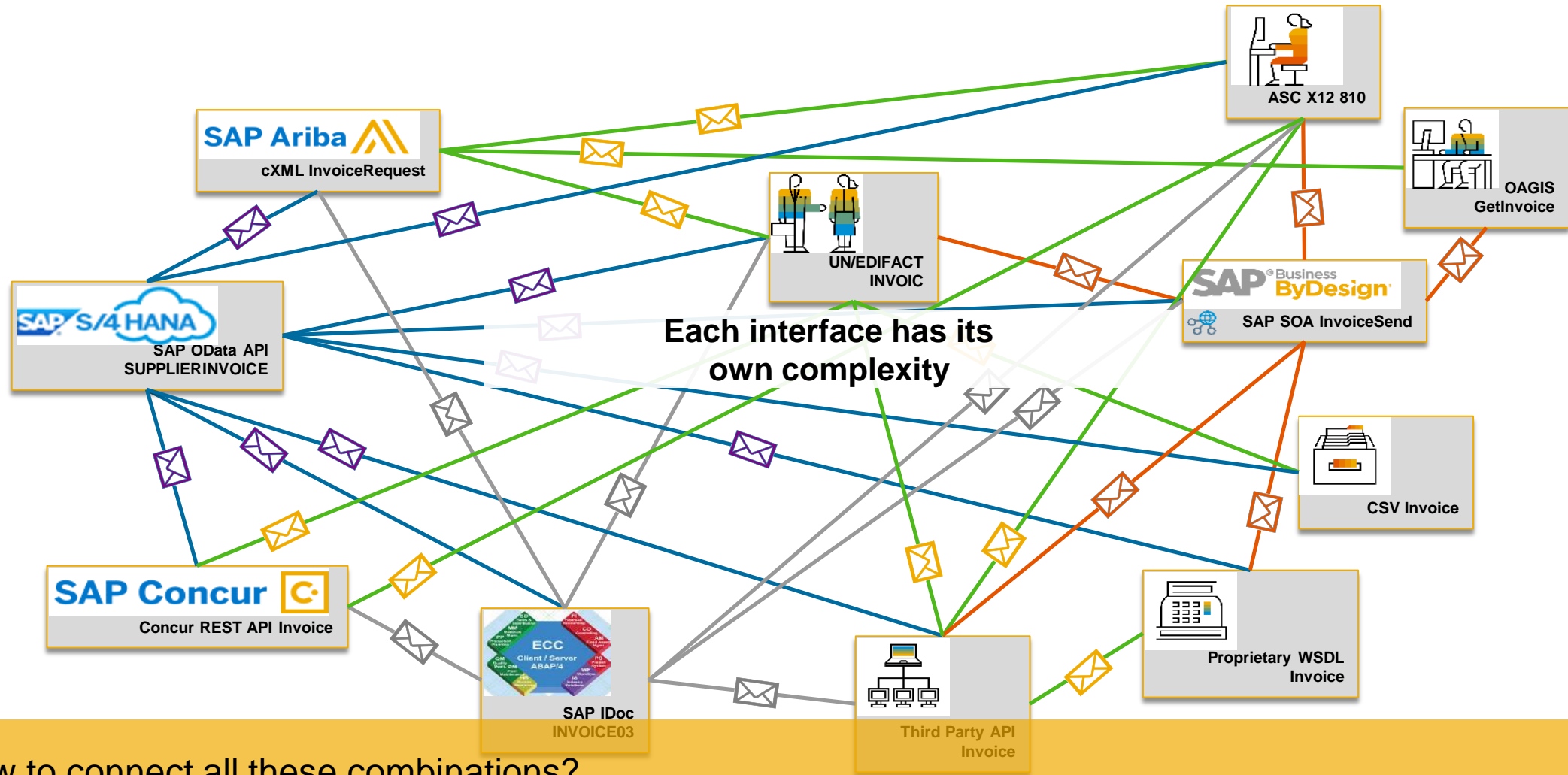
Integration Advisor's Approach

Integration Advisor Enablement, Roadmap and Information

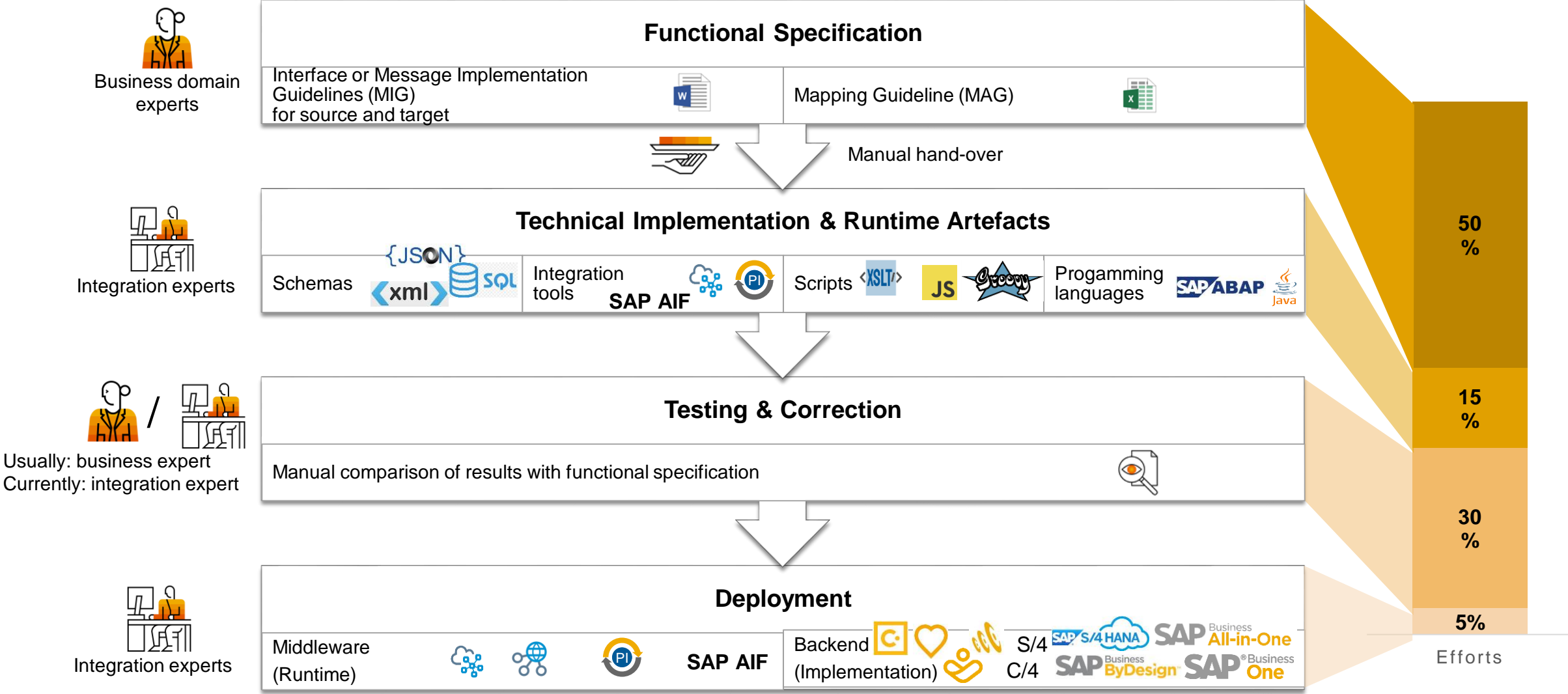
Integration Content Building

Current Situation

Reality: Integrate APIs/interfaces in heterogeneous landscapes



Current Situation: Design Time – Manual and Redundant Work



Technical Implementation: Message Mapping

The image is a composite of four panels illustrating a data integration project:

- SAP Cloud Platform Integration (CPI) Interface:** Shows a project named "MM_InvoiceRequest_OPSTSupplier_2_S4CEBuyer". It displays two tables: "INVOIC02" and "InvoiceRequest". The "INVOIC02" table lists various data points like "ABRWV_BEZ", "FKTYP", "LIFSK", etc. The "InvoiceRequest" table shows a hierarchical structure with fields like "ns2:InvoiceReques", "MessageHeader", "Invoice", "SupplierInvo", "DocumentDa", "GrossAmount", "Party", "@PartyTyp", "GlobalLoc", "BuyerParty", "SupplierPa", "Address", "FormOf", and "Address".
- Graphical Mapping Diagram:** A flow diagram showing data transformation. Inputs "PARVW" and "RS" are mapped to "PARTN" using an "equals(str)" function. "PARTN" is then mapped to "BUYERPARTYID" using an "ifWithoutEl" function. A "mapWithDefa" function is also shown.
- Groovy Code Snippets:**

```

def MapString, List<ItemInfo>> prepareShipToLocationItemAssignment(def items) {
    MapString, List<ItemInfo>> itemAssignment = new HashMap<String, List<ItemInfo>>()
    for (int i = 0; i < items.size(); i++) {
        if (items[i].CategoryCode?.toString() == "PKG" || items[i].CategoryCode?.toString() == "PRD") {
            def itemId = items[i].ID?.toString()
            def childItems = items.findAll { itemEntry -> itemEntry?.HierarchyRelationship?.ParentItemID?.toString() == itemId }
            ItemInfo itemInfo = new ItemInfo(
                id: itemId.toString(),
                category: items[i].CategoryCode?.toString(),
                parentId: items[i].HierarchyRelationship?.ParentItemID?.toString(),
                childIds: getChildItemIds(itemId, items)
            )
            def shipToLocation = items[i].ShipToLocation?.InternalID?.toString()
            if (itemAssignment.containsKey(shipToLocation)) {
                itemAssignment.get(shipToLocation).add(itemInfo)
            } else {
                List<ItemInfo> newItems = new ArrayList<>()
                newItems.add(itemInfo)
                itemAssignment.put(shipToLocation, newItems)
            }
        }
    }
    return itemAssignment
}

def List<String> getChildItemIds(def itemId, def items) {
    def childItems = items.findAll { itemEntry -> itemEntry?.HierarchyRelationship?.ParentItemID?.toString() == itemId }
    List<String> childItemIds = new ArrayList<>()
    childItems.each { entry ->
        childItemIds.add(entry.ID?.toString())
    }
    return childItemIds
}

def List<ReferenceSegment> prepareReferenceSegments(def references, List<ReferenceSegment> referenceSegments) {
    for (int i = 0; i < references.size(); i++) {
        if (references[i].BusinessTransactionDocumentReference?.TypeCode?.toString() == '73') {
            def deliveryRef = referenceSegments.find { refSegment -> (refSegment.type == referenceSegments[i].BusinessTransactionDocumentReference?.TypeCode?.toString() || refSegment.id == references[i].BusinessTransactionDocumentReference?.ID?.toString()) }
            if (!deliveryRef) {
                referenceSegments.add(new ReferenceSegment(
                    type: references[i].BusinessTransactionDocumentReference?.TypeCode?.toString(),
                    id: references[i].BusinessTransactionDocumentReference?.ID?.toString()
                ))
            }
        }
    }
    return referenceSegments;
}

```
- XSLT Code Snippets:**

```

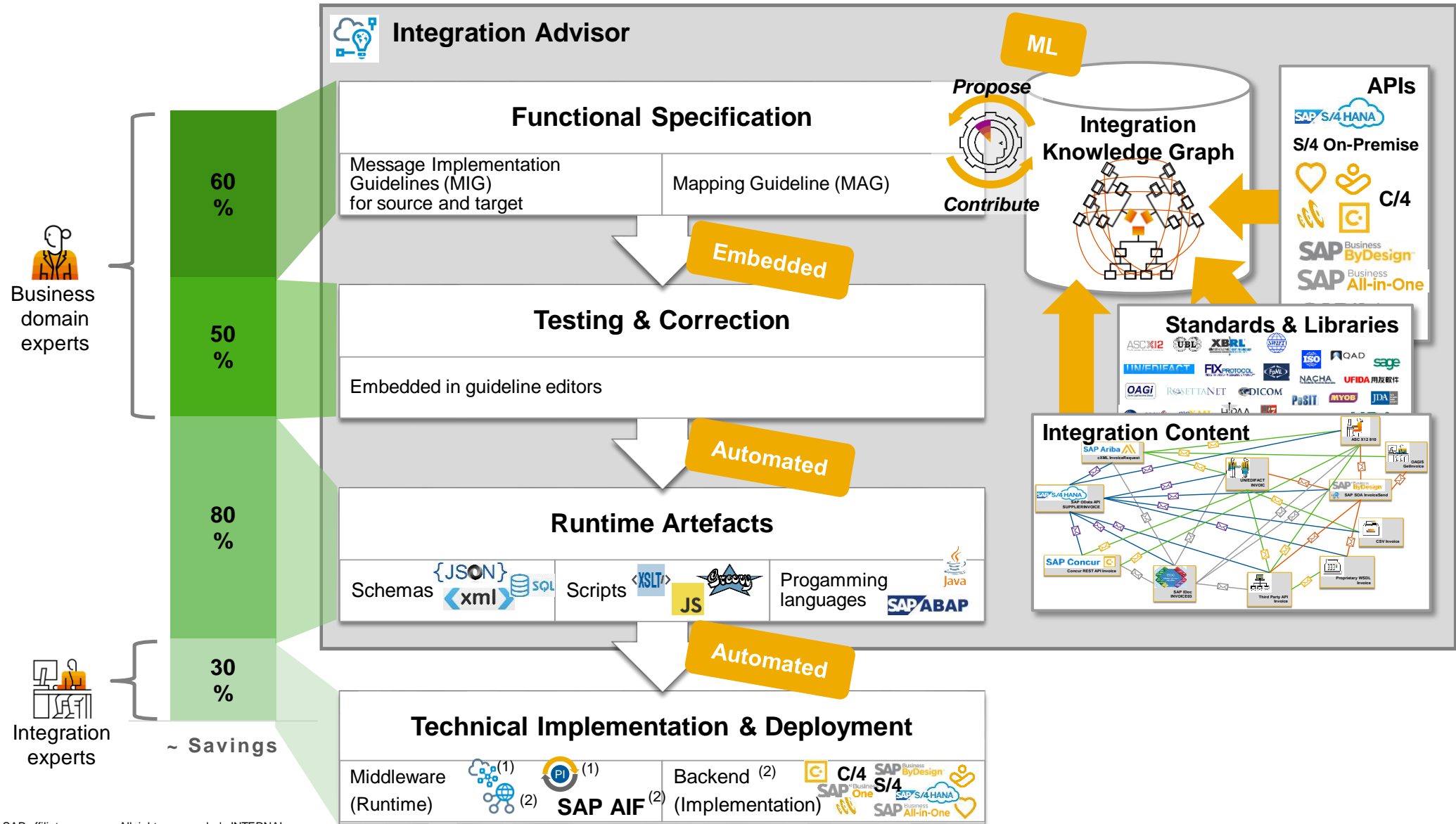
<OrderID>
  <xsl:value-of select="E1EDK01/BELNR" />
</OrderID>
<OrderDate>
  <xsl:variable name="v_zeit_orddate">
    <xsl:choose>
      <xsl:when test="string-length($v_k03/UZEIT)>0">
        <xsl:value-of select="$v_k03/UZEIT" />
      </xsl:when>
      <xsl:otherwise>
        <xsl:value-of select="000000" />
      </xsl:otherwise>
    </xsl:choose>
  </xsl:variable>
  <xsl:choose>
    <xsl:when test="(string-length($v_k03/DATUM) > 0)">
      <xsl:call-template name="ANDdate">
        <xsl:with-param name="p_date" select="$v_k03/DATUM" />
        <xsl:with-param name="p_time" select="$v_zeit_orddate" />
        <xsl:with-param name="p_timezone" select="$sanERPTIMEzone" />
      </xsl:call-template>
    </xsl:when>
    <xsl:choose>
      <xsl:when>
        <xsl:call-template name="FillDefaultLang">
          <xsl:with-param name="p_doctype" select="$sanTargetDocumentType" />
          <xsl:with-param name="p_pd" select="$v_pd" />
        </xsl:call-template>
      </xsl:when>
      <xsl:choose>
        <xsl:when test="$v_min = 1 and $v_max = 1">
          <OrderType>
            <xsl:text disable-output-escaping="no">blanket</xsl:text>
          </OrderType>
        </xsl:when>
        <xsl:otherwise>
          <OrderType>
            <xsl:text disable-output-escaping="no">regular</xsl:text>
          </OrderType>
        </xsl:otherwise>
      </xsl:choose>
    </xsl:choose>
    <xsl:variable name="v_action">
      <xsl:value-of select="E1EDK01/ACTION" />
    </xsl:variable>
    <xsl:if test="$v_action = '01'">
      <RequestType>new</RequestType>
    </xsl:if>
  </xsl:choose>

```

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Integration **Advisor's Approach**

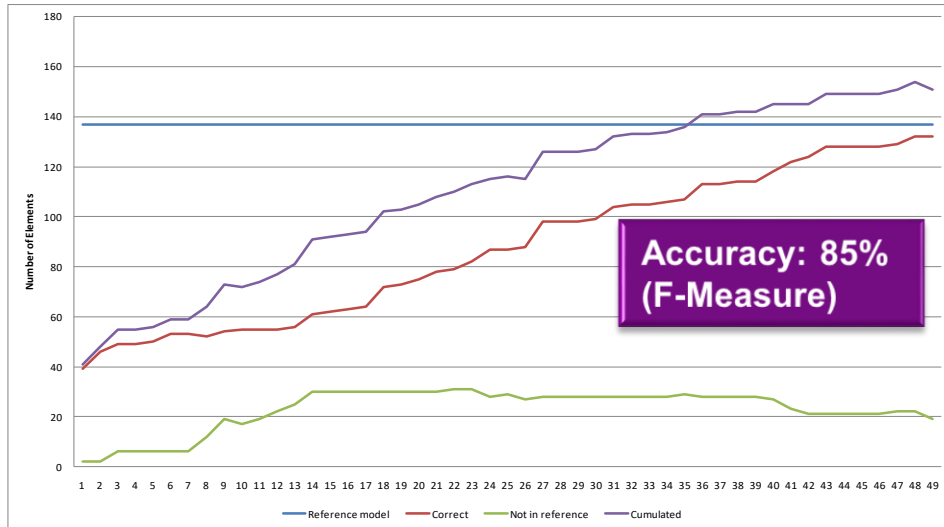
The Integration Advisor Approach



Learning Curve after 50 Contributions

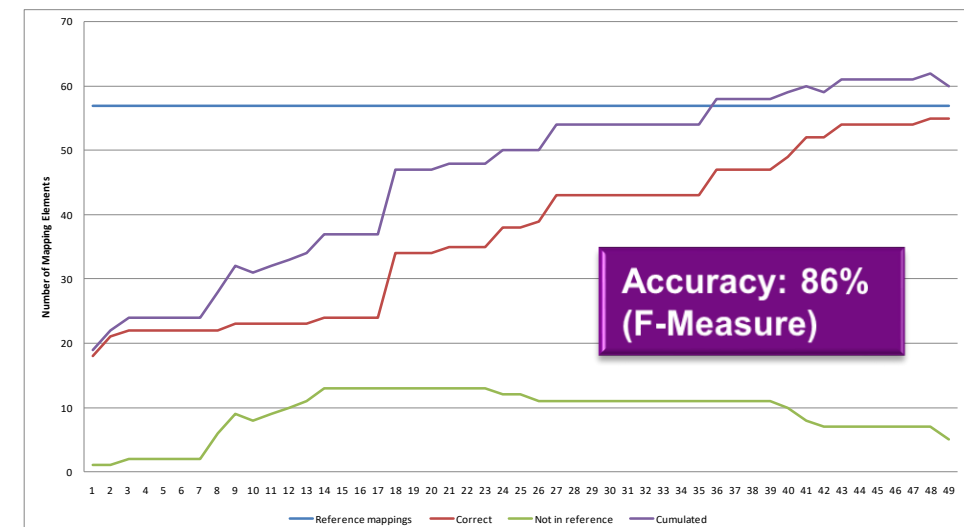
Interface proposal in business context

- Purchase Order
- Wholesaler industry / grocery
- Buyer / seller
- Germany / switzerland

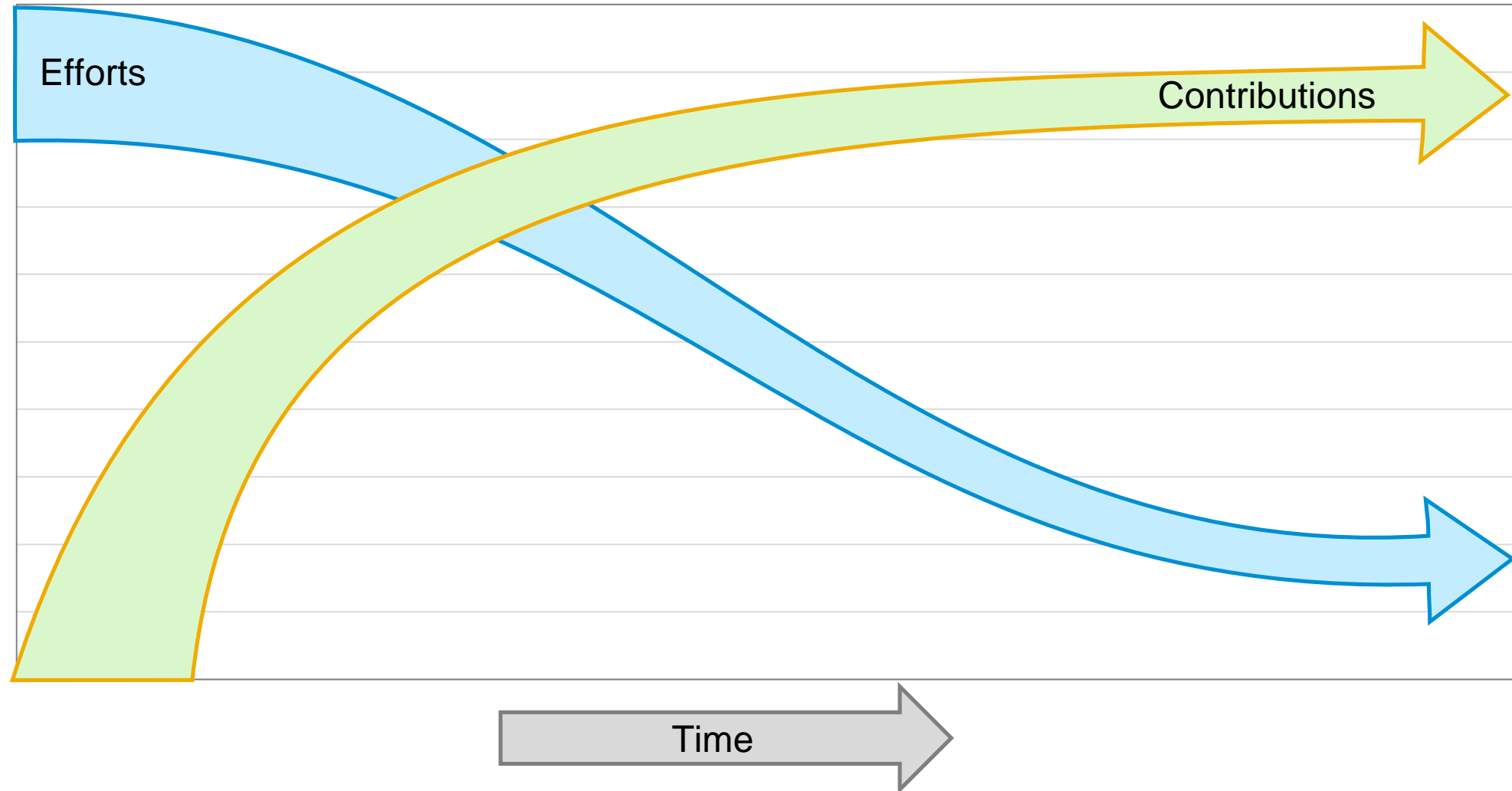


Mapping proposal

- Purchase Order
- Wholesaler industry / grocery
- Buyer / seller
- Germany / switzerland



Collaborative Learning and Automation



Key Differentiators of Integration Advisor

One stop shop

- One tool for all phases of A2A/B2B/B2G integration projects
- From functional specification to technical runtime artefacts

Wikipedia like

- All necessary information on single place

Proposal service

- Machine learning using crowd sourced learnings

Business oriented

- Addresses business domain experts

Community collaboration

- Common working on integration content

Future: Automated update service

- Automatic consideration of extensions/modifications in existing integration content

Agnostic

- Independent of runtime and platform technologies

Automatic generation and deployment

- Documentation (PDF, Excel and Word)
- All runtime artifacts for validation, conversion, transformation, pre-/post-processing and mapping

Integration Advisor @ S/4HANA + Demo

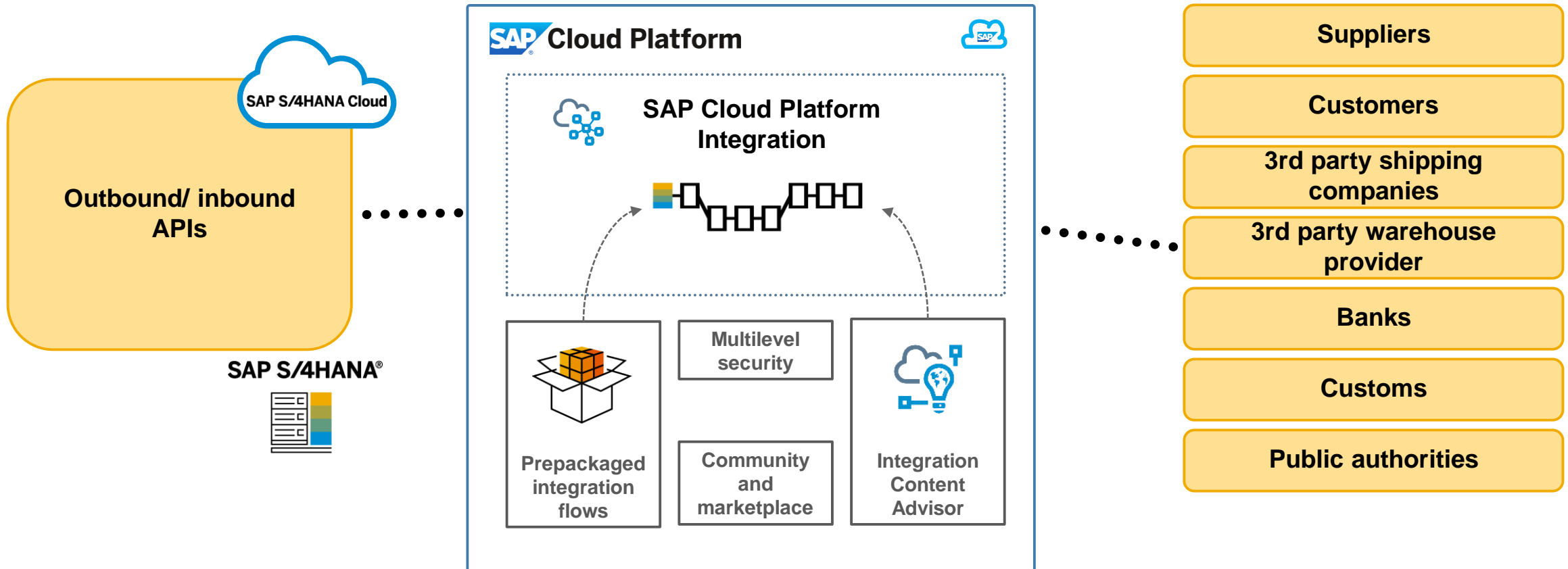
SAP S/4HANA

EDI subsystem and business partners

SAP customer

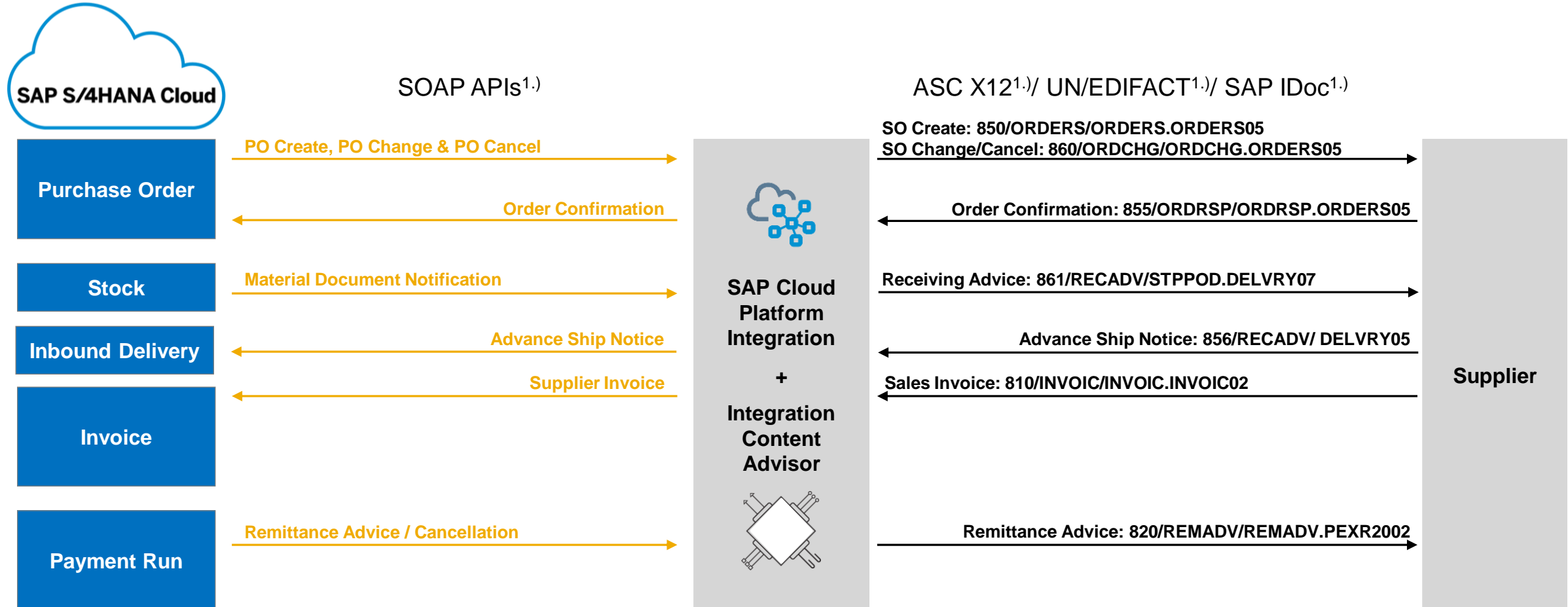
B2B via SAP Cloud Platform Integration

Business partners



SAP S/4HANA Cloud – Sourcing and procurement, finance and sales

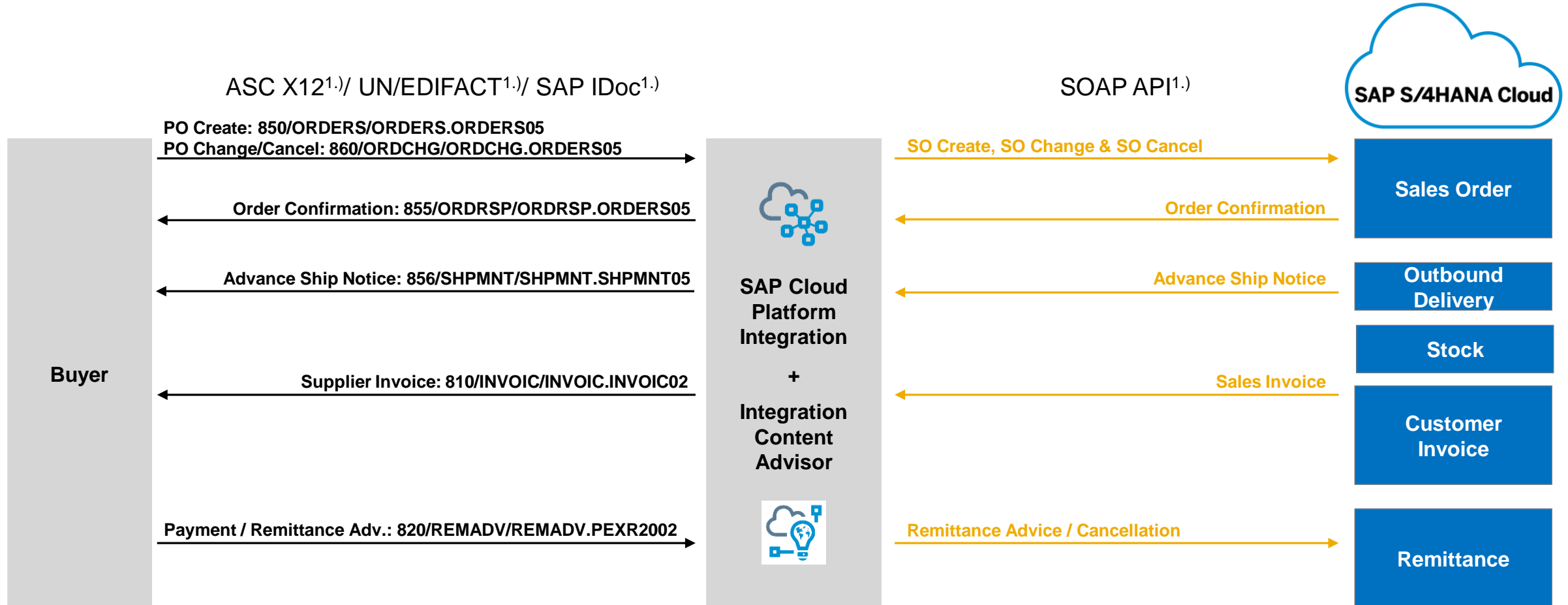
Communication between SAP S/4HANA Cloud procurement and EDI suppliers



1.) Content will be available in ICA as proposals, in all available versions; This is the current state of planning and may be changed by SAP at any time without notice.

SAP S/4HANA Cloud – Sourcing and procurement, finance and sales

Communication between EDI buyers and SAP S/4HANA Cloud sales



1.) Content will be available in ICA as proposals, in all available versions; This is the current state of planning and may be changed by SAP at any time without notice.

Activities for S/4 HANA Cloud

OpenSAP Course for Integration Advisor @ S/4 HANA Cloud – November 18th

Demo Scenarios

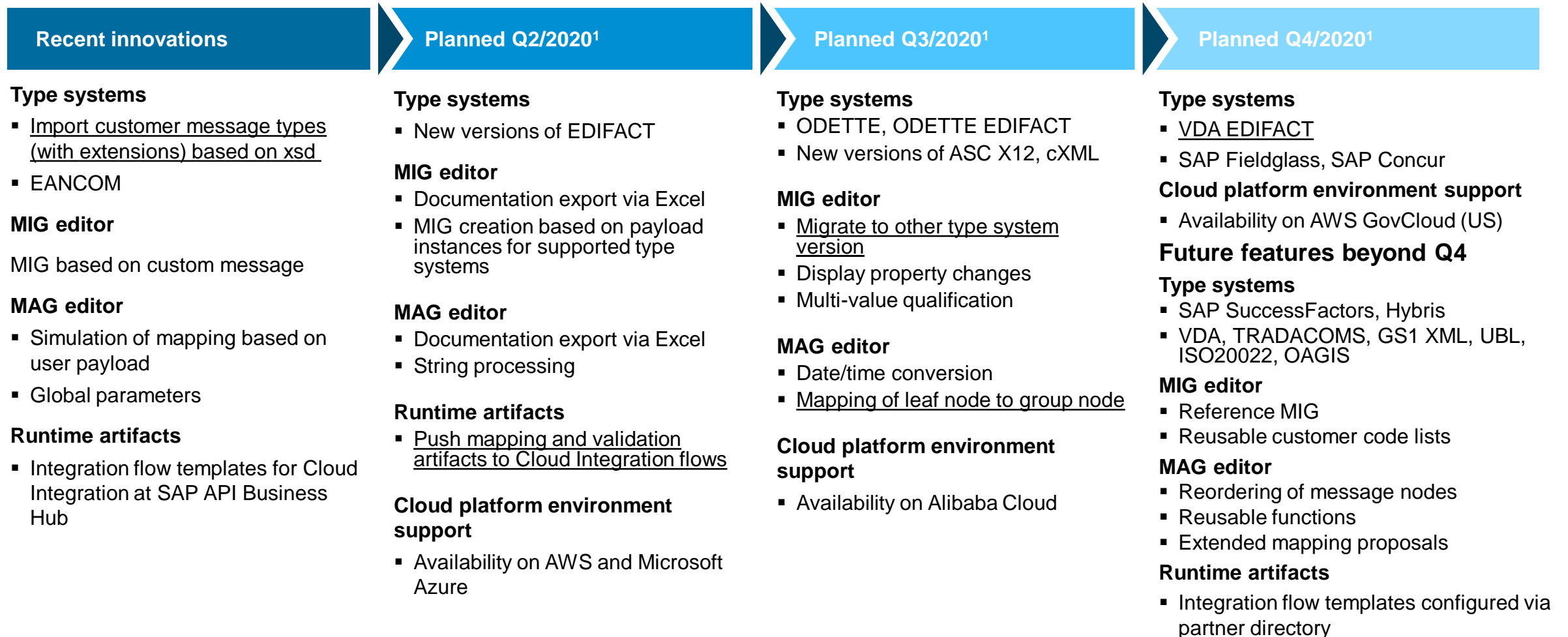
Pre-trained Content for mentioned scenarios

We need you for enablement and collaboration

Integration Advisor **Enablement**

SAP Cloud Platform Integration Advisor

Product road map overview 2020



1. This is the current state of planning and may be changed by SAP at any time without notice.

Customer Engagement Initiative (CEI)

Upcoming TPM@Cloud CEI in June 2020

- Get early insight into the newly planned and innovative Cloud based Trading Partner Management System
 - For setting up and maintaining B2B connections with trading partners
 - Using Integration Advisor
- Invite your customers, because they can
 - Provide their requirements
 - Influence development
 - Closely work with SAP product teams
- Network with peers around the Trading Partner Management System using IA


Interest, please contact

- Marton Luptak (Solution Management IA & B2B): marco.ertel@sap.com
- Marco Ertel (Product Management IA & B2B): marton.luptak@sap.com




Customer Influence

<https://influence.sap.com/sap/ino/#/campaign/2282>



Customer Influence and Adoption

Welcome to Customer Influence. We offer a range of programs that give you the opportunity to influence SAP software development decisions and adopt new innovations early on. Find below a first introduction to the opportunities you have on Customer Influence, as well as some user documentation to start with.



Submit a new Improvement Request

You have a great idea for a product you are using today? Via SAP Customer Connection and SAP Continuous Influence you can address your need for enhancements.

[Submit Improvement](#)

Check out the list of influencing projects that currently accept improvement requests and submit your request.

Watch our videos:

[Video: How to submit an Improvement](#)

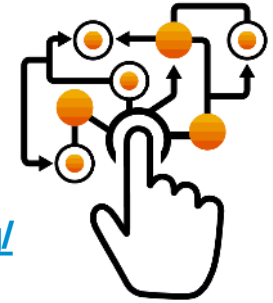
[Video: How to vote, comment, and follow](#)

1. **Feature Request: Type System Viewer** - The library of type systems is a collection of message templates that are provided by agencies that maintain the B2B standards.
2. **Feature Request: MIG Editor** - Message implementation guideline, also referred to as MIG, is used as the source or target in a mapping guideline (MAG) of SAP Cloud Platform Integration Advisor.
3. **Feature Request: MAG Editor** - A mapping guideline is the runtime artifact that you use in the mapping step of an integration application like SAP Cloud Platform Integration.
4. **Feature Request: Others**
5. **Content Request: Type System** - To include any Library of Type Systems or API's.
6. Merged with Integration Suite

Where to find more information

Learn more about SAP Cloud Platform Integration Advisor

- Getting started at [Official page of SAP Cloud Platform Integration Advisor SAP Help Portal](#)
- Series of blogs at SDN: <https://blogs.sap.com/2019/03/12/integration-content-advisor-overview-of-components-and-further-reading/>



Learn more about SAP Cloud Platform Integration Suite

- Get started by learning about SAP Cloud Platform Integration Suite at <https://cloudplatform.sap.com/integration.html>
- Upcoming Open SAP course starting on September 1st, 2020 also covering Integration Advisor <https://open.sap.com/>
- Use the SAP Learning Journeys to increase your knowledge level at [SAP Cloud Platform Integration basics](#)

Participate in the SAP Community

- Follow the blogs and join the discussions at <https://www.sap.com/community/topics/cloud-integration.html>

Explore the SAP API Business Hub

- Jump start your integration projects with prepackaged integration content from <https://api.sap.com/>



Thank you.

Contact information:

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Partner logo

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