

Consolidated Release Notes for SAP NetWeaver Process Integration and Process Orchestration - Features Comparison

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ESR in Swing

| Capabilities | Releases Installation Options | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|--|--|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|----|
| | | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Authorizations for access to objects in the ESR | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Release state attribute of Service Interfaces | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Interface Pattern | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Service Interfaces with multiple operations | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Mass import of external definitions | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Usage Profile | | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Classify Service Interfaces in the ES Repository | | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Wizard to match Service Interfaces | | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Create Service Interfaces from WSDL files | | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Security Profile of Service Interfaces | | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Idempotency | | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Mapping | ABAP mappings | ● | ● | ● | ● | ● | ● | ● | ● | ● | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | Standard RFC and JDBC lookup functions | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Function libraries | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | SAP XML toolkit | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | JDK5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Support for XSLT 2.0 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Comparing mapping versions | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| Central ESR | for PI-CE scenarios | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | for federated PI scenarios | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| Wizard-based configuration of a central ES Repository | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ◆ | ● | ● | ● | ● | ● |
| User-centric perspective in ES Repository | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Find SOA assets by documentation URL in ES Repository | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Extend SAP's pre-delivered entities (e. g. service interface) with custom attributes | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Define custom lifecycle for assets including possible transitions and authorizations | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |

ESR in Swing

| Releases Installation Options | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|--|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|----|
| | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Capabilities | | | | | | | | | | | | | | | |
| Subscribe to object changes to be notified via e-mail on specific actions (edit, delete) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Web-based UI for specific scenarios (search, view, subscribe to objects) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Fine-granular ACL's to restrict actions (create, edit, delete) on individual objects | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Improved logging to ensure transparency | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Enable / disable advanced capabilities through pre-delivered configuration wizard | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| PCI support | | | | | | | | | | | | | | | |
| for Service Interfaces | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| for RFC & IDoc | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |

ESR in Eclipse

| Releases Installation Options | | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|----------------------------------|--|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|----|
| | | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Capabilities | | | | | | | | | | | | | | | | |
| ESR in Eclipse supported? | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Interface Objects | Create Data Types | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Create Message Types | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Create Service Interfaces from WSDL files | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Subscribing to object changes | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Defining attribute definition | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Importing external definitions (XSD) | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | Importing RFC & Idocs | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Context Objects | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | PCI support | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| Mapping Objects | Creating message mappings | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Creating operation mappings | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | User defined Java functions | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Message Mapping testing environment | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Importing mapping archives | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Using in-built functions to assign an expression | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Function Libraries | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Mapping Templates | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Graphical mapping tool in Eclipse | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Support for XSLT 2.0 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Comparing mapping versions | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Export of mapping documentation | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | |
| Content Structuring | SWCV | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Local SWCV | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Namespaces | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| Software Lifecycle | Change list support | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | CTS+ support | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Integration Scenario models | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | |

Directory and Runtime

| | | Releases | | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|--|---|----------------------|-----|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|----|
| | | Installation Options | | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Capabilities* | | | | | | | | | | | | | | | | | | |
| Configuration approach | Classical objects | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ | | |
| | Integrated Configuration Object (ICO) | ● | ◆ | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ◆ | ● | ● | | |
| Structuring | Folders | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Configuration Scenarios | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| Routing | Content-based routing | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Operation-dependent receiver determination | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Extended Receiver Determination | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | Receiver Rules | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | Maintain order at runtime in IF determination | ◆ | ◆ | ◆ | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Model Configurator | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Virtual receiver | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Configuring direct connections | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | |
| Mapping | Interface split (1:n mapping) | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Parameterized Mappings | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| Tools | Publishing sender agreements in Services Registry | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | PI Scenario Model release transfer | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | Extended copy of configuration scenarios | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| Runtime | XML validation | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Automated Transport for Schema Validation | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Logging of synchronous messages | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | Scenario-specific logging and staging | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | Virus Scan | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | Message Prioritization | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Message Versioning (further persistencies) | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | ● | n/a | ● | ● | | |
| Header Mappings supported by following receiver adapters | XI | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | IDoc | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | http | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | | |
| | RNIF | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | n/a | ● | ● | | |
| | CIDX | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | n/a | ● | ● | | |

* Note: features for AAE, AEX, and PO refer to ICO, whereas for PI DS referring to classical configuration objects (sender agreement, receiver determination, interface determination, etc)

Directory and Runtime

| Capabilities* | Releases Installation Options | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|---|----------------------------------|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|-----|
| | | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| ACL using assigned users supported by following sender adapters | XI | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | http | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ◆ | ◆ | ● | ● | ● | ● |
| | RFC | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | n/a | ● | ● |
| | IDoc | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ◆ | ◆ | ● | ● | ● | ● |
| | SOAP | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | n/a | ● | ● |
| | WS-RM | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | ● | n/a | n/a |
| | RNIF | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | n/a | ● | ● |
| | CIDX | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | n/a | ● | ● |

* Note: features for AAE, AEX, and PO refer to ICO, whereas for PI DS referring to classical configuration objects (sender agreement, receiver determination, interface determination, etc)

Directory API

| Capabilities | Releases Installation Options | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|---|----------------------------------|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|-----|
| | | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Old version of Directory API supported? | | ▲ | ▲ | n/a | ▲ | ▲ | n/a | ▲ | ▲ | ◆ | ◆ | ▲ | ▲ | ◆ | ◆ | ◆ |
| New version of Directory API supported? | | ◆ | ◆ | ◆ | ▲ | ▲ | n/a | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Party | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Communication Components | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Communication Channels | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Receiver Determination | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Parameterized mappings in receiver or interface determinations | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | ● | ● | ● |
| Parameterized integration processes in receiver or interface determinations (ccBPM) | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | n/a |
| Maintain order at runtime in IF determination or ICO (QoS) | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| Extended Receiver Determination | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | ● | ● | ● |
| Interface Determination | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Sender Agreement | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Receiver Agreement | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Direct Connection | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Value Mapping | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Configuration Scenario | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Folder object | | n/a | n/a | n/a | ◆ | ◆ | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Folder usage in other objects | | n/a | n/a | n/a | ◆ | ◆ | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ICO | | n/a | n/a | n/a | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| Receiver Rule | | n/a | n/a | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | n/a | ● | ● | n/a | n/a | n/a |
| Schema Validation in IF determination or ICO | | n/a | n/a | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Logging & Staging | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● |
| Virus Scan | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● |
| Alert Rules | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● |

Integration Flows in Eclipse

| Releases Installation Options | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP2 | | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|----------------------------------|---|----------------|-------|-----|--------|--------------------|-------|-----|--------|-----|--------------------------------|-------|-----|--------|----|
| | | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO | Sum | PI DS | AAE | PI AEX | PO |
| Capabilities | | | | | | | | | | | | | | | |
| Integration Flows supported? | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ▲ | ▲ | ◆ | ◆ | ◆ | ● | ● |
| Common logon (towards ESR) | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| Pattern support | Point to Point | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Recipient List | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Message Translator | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Dynamic Recipient List | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| User defined templates | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| Basic routing capabilities | Create Communication Components | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Assign Systems | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Assign Interfaces | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Specify operations | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Define recipient list | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Define interface split | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Routing condition | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| Extended routing capabilities | Maintain order at runtime | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Access Control List | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | Logging & Staging | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | Extended Receiver Determination | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● |
| | Virus Scanner support | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | XML validation | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | Receiver rules | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ◆ | ◆ |
| Channels | Define channels | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Channel Templates | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Re-use of channels | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | Channel Agreement support | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| Mapping | Assign mapping | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Configurable parameters | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| Value Mapping | Editor | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | Import/Export of Excel Spreadsheet | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| Structuring | Grouping via Folders in Eclipse | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| | Default folder in Directory containing objects generated from integration flows | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● |
| b2b settings | Party | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | Virtual Receiver | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |
| | Header Mapping | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● |

Integration Flows in Eclipse

| Releases Installation Options | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP2 | | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | | | | |
|----------------------------------|---|----------------|-------|-----|-----|--------------------|-----|-------|-----|-----|--------------------------------|-----|-----|-------|----|-----|--------|----|
| | | Sum | PI DS | IS | AAE | PI AEX | Sum | PI DS | IS | AAE | PI AEX | PO | Sum | PI DS | IS | AAE | PI AEX | PO |
| Capabilities | Software Lifecycle | | | | | | | | | | | | | | | | | |
| | Activation and Deployment | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | n/a | n/a | n/a | ● | ● | | |
| | Undeployment | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● | | |
| | Transport log viewer | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● | | |
| | CTS+ support | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● | | |
| Tools | PI Scenario Model to Integration Flows wizard | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ◆ | ◆ | n/a | n/a | n/a | ● | ● | | | |

Connectivity / Adapters

| Capabilities | Releases Installation Options | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|--------------|---|----------------|----|-----|----------------|----|-----|----------------|----|-----|--------|--------------------------------|----|-----|--------|----|
| | | PI DS | | | PI DS | | | PI DS | | | PI AEX | PI DS | | | PI AEX | PO |
| | | Sum | IS | AAE | Sum | IS | AAE | Sum | IS | AAE | PI AEX | Sum | IS | AAE | PI AEX | PO |
| Idoc | Idoc adapter supported? | ▲ | ▲ | ◆ | ▲ | ▲ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| | Supported IDoc segment versions >=3.1 | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | SAP applications based on releases including SAP Basis 3.1 and higher | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | SAP applications based on releases including SAP Basis 4.0 and higher | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | non-SAP applications | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | Automatic generation of adapter | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | QoS EO | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | QoS EOIO with qRFC | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Multi Display/Multi Processing - MDMP (multi codepage systems) | ▲ | ▲ | n/a | ▲ | ▲ | n/a | ▲ | ▲ | ◆ | ◆ | ▲ | ▲ | ◆ | ◆ | ◆ |
| | Communication with non-SAP backend systems via RFC SDK (SAP note 825494) | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Communication with non-SAP backend systems via SAP NetWeaver RFC Library (SAP note 1025361) | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | Communication with non-SAP backend systems via JCo standalone 2.1* | ▲ | ▲ | n/a | ▲ | ▲ | n/a | ▲ | ▲ | ◆ | ◆ | ▲ | ▲ | ▲ | ▲ | ▲ |
| | Communication with non-SAP backend systems via JCo standalone 3.0** | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Security: basic authentication | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Security: transport level security (SNC) | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Partner conversion | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Idoc packaging at PI inbound | ◆ | ◆ | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Idoc packaging at PI outbound | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Segment data change/reduction | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | Automatic segment data reduction | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Enhancement by adapter modules | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | ALE Audit | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ALEAUD support for IDoc packages | ▲ | ▲ | n/a | ▲ | ▲ | n/a | ▲ | ▲ | ◆ | ◆ | ● | ▲ | ● | ● | ● |
| | Flat File to IDoc XML module | ◆ | ◆ | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Flat File to IDoc XML for packages | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ◆ | ◆ | ● | ◆ | ● | ● | ● |
| | IDoc tracing | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ▲ | ▲ | ▲ |
| | IDoc monitoring | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |

* JCo 2.1 out of maintenance since April 2013. It is recommended to migrate to JCo 3.0

** for Java IDoc adapter: as of JCo 3.0.10, RFC client and server extern communication will be supported

Connectivity / Adapters

| Capabilities | Releases Installation Options | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|---------------------|--|----------------|-----|-----|----------------|-----|-----|----------------|----|-----|--------|--------------------------------|-----|-----|--------|-----|
| | | Sum | IS | AAE | Sum | IS | AAE | Sum | IS | AAE | PI AEX | Sum | IS | AAE | PI AEX | PO |
| Idoc continued | Status tracking – SYSTAT | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| | RFC monitoring | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | n/a |
| | Message persistence in the IDoc adapter | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | Sending Ack Idocs as XI request message | ● | ● | n/a | ● | ● | n/a | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | Individual timeouts for channels | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| HTTP | http adapter supported? | ▲ | ▲ | ◆ | ▲ | ▲ | ◆ | ● | ▲ | ● | ● | ● | ▲ | ● | ● | ● |
| | http 1.0 | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | http 1.1 | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | GET | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | POST | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Support of multipart requests | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | Attachment support | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | Acknowledgement support | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | Modules support | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | Individual timeouts for communication channels | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| | Client side tracing | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| XI | XI adapter supported? | ● | ● | ◆ | ● | ● | ▲ | ● | ● | ▲ | ▲ | ● | ● | ● | ● | ● |
| | Connection to ABAP proxies | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Connection to Java proxies | ● | ● | n/a | ● | ● | ◆ | ● | ● | ▲ | ▲ | ● | ● | ● | ● | ● |
| | Connection to AAE | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Connection to PCK | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Ack support | ● | ● | n/a | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Transport level security (SSL over http) | ● | ● | n/a | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Message level security | ● | ● | n/a | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Principal Propagation | ● | ● | n/a | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Bulk support on sender side | ● | ● | n/a | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Http destination support | ● | ● | n/a | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Packaging at PI outbound | ● | ● | n/a | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Individual timeouts for channels | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| Client side tracing | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● | |
| JDBC | Configure max. message size and row size fetched from DB in JDBC adapter | ◆ | n/a | ◆ | ◆ | n/a | ◆ | n/a | ◆ | ● | ● | ● | n/a | ● | ● | |
| | Individual timeouts for communication channels | ◆ | n/a | ◆ | ◆ | n/a | ◆ | n/a | ◆ | ● | ● | ● | n/a | ● | ● | |

Connectivity / Adapters

| Releases Installation Options | | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|----------------------------------|---|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|--------|--------------------------------|-----|-----|--------|----|
| | | Sum | IS | AAE | Sum | IS | AAE | Sum | IS | AAE | PI AEX | Sum | IS | AAE | PI AEX | PO |
| Capabilities | JMS queues | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | JMS topics | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | JMS topics support of durable subscriptions | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | n/a | ● | ● | ● |
| | Failover of channels with QoS EOIO in a cluster environment | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Enabling Async/Sync and Sync/Async Communication With JMS Adapter | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| File/FTP | Max file size parameter | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Create target directory | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Empty file handling | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Large (binary) file handling | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | FTP proxy server | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | n/a | ● | ● | ● |
| | OS command restricted to authorized users | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | n/a | ● | ● | ● |
| | Maximum Concurrency for receiver adapters | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Create Target Directory parameter | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Handling duplicate messages in the file adapter | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | n/a | ● | ● | ● |
| | Individual timeouts for communication channels | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Display flat file content in message monitor | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | n/a | ● | ● | ● |
| SOAP | Axis framework | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | SOAP 1.2 | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Multi-message handling by the SOAP adapter | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | n/a | ● | ● | ● |
| | Individual timeouts for channels | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | n/a | ● | ● | ● |
| | Client side tracing | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ● | ◆ | ● | ● | ● | ◆ | ● | ● | ● |
| WS | WS-RM 1.0 | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| | WS-RM 1.1 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ◆ | ● | ● | ● |
| | SAML sender vouches | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● |
| Mail | Supporting multiple attachments | | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ◆ | ◆ | ● | n/a | ● | ● | ● |
| SuccessFactors | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| OData | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| REST | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● |

Business Process Management

| Capabilities | | Releases Installation Options | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|---|---|----------------------------------|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|----|
| | | | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Tools | ccBPM | | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ |
| | NW BPM | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Enterprise Integration Pattern support (Message Routing)* | Aggregator (variant: collecting messages of identical IF) | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| | Aggregator (variant: collecting messages of different IFs)** | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| | Composed Message Processor | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| | Content-Based Router | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Process Manager | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| | Recipient List | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Resequencer (variant: resequencing messages of identical IF)** | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ▲ |
| | Resequencer (variant: resequencing messages of different IFs)** | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ▲ |
| | Scatter-Gather | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| | Splitter | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Sync-Async Bridge | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| Enterprise Integration Pattern support (Message Transformation)* | Claim Check | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| | Content Filter | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Content Enricher (Async-Sync bridge) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Enterprise Integration Pattern support (Message Construction)* | Message Expiration | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| | Request-Reply | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |
| Enterprise Integration Pattern support (Message Endpoints)* | Polling Consumer | | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● |

* Please refer to "Enterprise Integration Patterns", by Hohpe/Woolf (Addison-Wesley Professional), 2004

** Regarding limitation, please refer to SAP notes 1706625, and 1706871

Operations and Monitoring




| | | Releases | | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|------------------|----------------------------|--|-----|----------------|-------|-----|----------------|-------|-----|----------------|-------|-----|--------|--------------------------------|-------|-----|--------|----|
| | | Installation Options | | Sum | PI DS | AAE | Sum | PI DS | AAE | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Capabilities | Archiving | Configure number of parallel archiving threads | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ | |
| | | Choose which version of the persisted message will be archived | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ | |
| | | Scenario-specific retention periods | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | |
| Transport | | CTS+ support | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | BOM list of transported objects in CTS+ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| Local Monitoring | | Local monitor for "central" monitoring of complete PI domain (RWB) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| | | Component monitor | ● | ● | ● | ● | ● | ● | ● | ● | ● | ◆ | ● | ● | ● | ● | ● | |
| | | Channel monitor | ● | n/a | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● | |
| | | Communication Channel ping | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ● | n/a | ● | ● | ● | n/a | ● | ● | ● | |
| | | Suspend and resume channels | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | n/a | ● | ● | ● | |
| | | Message monitor | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | Display application errors | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | ● |
| | | Message Overview monitor | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | Advanced search for archived messages | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | User Defined Message Search (UDS) | ◆ | ◆ | ◆ | ● | ● | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | Display message size in message monitor | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | ● |
| | | Performance monitor | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ▲ | ▲ | ● | ● | ● | ● | ● | ● |
| | | Cache monitor | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | Idoc monitor | ● | ● | n/a | ● | ● | n/a | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | Persistence Layer Encryption monitor (PCI) | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | ● | ● | ● | ● | ● | |
| | | Business Process Monitor | ● | ● | n/a | ● | ● | n/a | ● | ● | n/a | n/a | ● | ● | n/a | n/a | ● | |
| | | Background jobs monitor | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ▲ | ▲ | ● | ● | ● | ● | ● | ● |
| | | Sending test message | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ● | ● | ● | ● |
| | | Cache connectivity test | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | B2B view in message monitor | n/a | n/a | n/a | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● |
| | Resend successful messages | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | |
| Alerting | | Alerting supported? | ● | ● | ● | ● | ● | ● | ● | ● | ● | ▲ | ● | ● | ● | ● | ● | |
| | | Alert Framework | ● | ● | ● | ● | ● | ● | ● | ● | ● | ▲ | ● | ● | ● | ▲ | ▲ | |
| | | Component-based message alerting | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | |
| | | Trigger alert based on age of message | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ● | ● | ◆ | ◆ | ◆ | |

Operations and Monitoring

| | | Releases | NetWeaver 7.10 | | | NetWeaver 7.11 | | | NetWeaver 7.30 | | | | NetWeaver 7.31 SP14 / 7.4 SP09 | | | | |
|--------------------|---|----------------------|----------------|-----|-----|----------------|-----|-----|----------------|-------|--------|--------|--------------------------------|-------|--------|--------|----|
| | | Installation Options | PI DS | | | PI DS | | | Sum | PI DS | AAE | PI AEX | Sum | PI DS | AAE | PI AEX | PO |
| Capabilities | | Sum | IS | AAE | Sum | IS | AAE | Sum | IS | AAE | PI AEX | Sum | IS | AAE | PI AEX | PO | |
| Central Monitoring | Monitoring Cockpit in Solution Manager 7.1 SP2 | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Consuming message alerts in Solution Manager 7.1 SP5 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | |
| | Central UDS in Solution Manager 7.1 SP3 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | |
| Robustness | Full cache refresh optimization (lower memory consumption, and better performance) | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Decouple CPA cache from mapping runtime cache | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | n/a | ◆ | ◆ | ● | ● | ● | ● | ● | |
| | Improved out of memory handling to avoid Java server restarts | ◆ | n/a | ◆ | ● | n/a | ● | ● | n/a | ● | ● | ● | n/a | ● | ● | ● | |
| | Blacklisting | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Improved lock handling | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Optimized EO / EOIO handling after server restarts to avoid startup timeouts | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Technical acknowledgements contain less overhead for better performance | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Faster data base switch with less memory consumption | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Safe restart | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Large message queue | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Restrict number of calls for a specific backend avoiding overload of small backends | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Number of queues per receiver | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |
| | Extended EOIO exception handling | ● | ● | ◆ | ● | ● | ◆ | ● | ● | ◆ | ◆ | ◆ | ● | ● | ● | ● | ● |

Legend

Rating

-  supported
-  not fully supported
-  not supported at all

Installation Options/Usage Types/Components

- DS Dual Stack consisting of IS and AE/AE
- IS Integration Server
- AE Adapter Engine
- AAE Advanced Adapter Engine
- AEX Advanced Adapter Engine Extended
- PI Process Integration
- PO Process Orchestration consisting of AEX and BPM/BRM
- BPM Business Process Management
- BRM Business Rules Management
- ccBPM Cross Component Business Process Management

Enterprise Integration Patterns (Integration-Centric Processes relevant only)*

| Category | Pattern | Contents | Stateful? | Comment |
|-----------------|----------------------------|--|-----------|--|
| Message Routing | Aggregator | How do we combine the results of individual but related messages so that they can be processed as a whole? | Yes | Use a stateful filter, an Aggregator, to collect and store individual messages until a complete set of related messages has been received. Then, the Aggregator publishes a single message distilled from the individual messages. |
| Message Routing | Composed Message Processor | How can you maintain the overall message flow when processing a message consisting of multiple elements, each of which may require different processing? | Yes | Use Composed Message Processor to process a composite message. The Composed Message Processor splits the message up, routes the sub-messages to the appropriate destinations and re-aggregates the responses back into a single message. |
| Message Routing | Content-Based Router | How do we handle a situation in which the implementation of a single logical function is spread across multiple physical systems? | No | Use a Content-Based Router to route each message to the correct recipient based on message content. |

* please refer to "Enterprise Integration Patterns", by Hohpe/Woolf (Addison-Wesley Professional), 2004

Legend

| Category | Pattern | Contents | Stateful? | Comment |
|------------------------|------------------|--|-----------|---|
| Message Routing | Process Manager | How do we route a message through multiple processing steps when the required steps may not be known at design-time and may not be sequential? | Yes | Use a central processing unit, a Process Manager, to maintain the state of the sequence and determine the next processing step based on intermediate results. This is a generic pattern for all kinds of routing activities which cannot be covered with the other Message Routing patterns. In general SCP is best suited for these kinds of scenarios. |
| Message Routing | Recipient List | How do we route a message to a list of dynamically specified recipients? | No | Define a channel for each recipient. Then use a Recipient List to inspect an incoming message, determine the list of desired recipients, and forward the message to all channels associated with the recipients in the list. |
| Message Routing | Resequencer | How can we get a stream of related but out-of-sequence messages back into the correct order? | Yes | Use a stateful filter, a Resequencer, to collect and re-order messages so that they can be published to the output channel in a specified order. |
| Message Routing | Scatter-Gather | How do you maintain the overall message flow when a message needs to be sent to multiple recipients, each of which may send a reply? | Yes | Use a Scatter-Gather that broadcasts a message to multiple recipients and re-aggregates the responses back into a single message. |
| Message Routing | Splitter | How can we process a message if it contains multiple elements, each of which may have to be processed in a different way? | No | Use a Splitter to break out the composite message into a series of individual messages, each containing data related to one item. |
| Message Transformation | Claim Check | How can we reduce the data volume of message sent across the system without sacrificing information content? | Yes | Store message data in a persistent store and pass a Claim Check to subsequent components. These components can use the Claim Check to retrieve the stored information. Goal is to reduce the amount of data in the process context by storing them in a database and reference them via a key. |
| Message Transformation | Content Enricher | How do we communicate with another system if the message originator does not have all the required data items available? | No | Use a specialized transformer, a Content Enricher, to access an external data source in order to augment a message with missing information. |

* please refer to "Enterprise Integration Patterns", by Hohpe/Woolf (Addison-Wesley Professional), 2004

Legend

| Category | Pattern | Contents | Stateful? | Comment |
|------------------------|--------------------|--|-----------|---|
| Message Transformation | Content Filter | How do you simplify dealing with a large message, when you are interested only in a few data items? | No | Use a Content Filter to remove unimportant data items from a message leaving only important items. It's just a mapping task: removing data and simplifying structures. |
| Message Construction | Message Expiration | How can a sender indicate when a message should be considered stale and thus shouldn't be processed? | No | Set the Message Expiration to specify a time limit for how long the message is viable. |
| Message Construction | Request-Reply | When an application sends a message, how can it get a response from the receiver? | Yes | Send a pair of Request-Reply messages, each on it's own channel. |
| Message Endpoints | Polling Consumer | How can an application consume a message when the application is ready? | Yes | The application should use a Polling Consumer, one that explicitly makes a call when it wants to receive a message. The receiver thread blocks until a message is received (synchronous receiver). The application controls how many messages are consumed concurrently! Normally part of proxy/adapter but also usable within an SCP. |

* please refer to "Enterprise Integration Patterns", by Hohpe/Woolf (Addison-Wesley Professional), 2004

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