Configuration Guide

CUSTOMER

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Intercompany data exchange for UK electricity suppliers 1.0

Typographic Conventions

Type Style	Description
Example	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.

Document History

Version	Status	Date	Change
1.1	Final	2017-11-10	Updated for an addition of the sub-chapter Data Protection and Privacy under the chapter 4 Security Information
1.0	Final	2014-05-27	First Document Release

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1 About This Document

1.1 Purpose and Scope

This configuration guide provides details of the *intercompany data exchange for UK electricity suppliers* (IDEX UK) solution with focus on the configuration and integration activities that are to be carried out by the IDEX Implementation Programme (IIP) in order to integrate the solution into the overall implementation program.

To facilitate the implementation of the IDEX UK solution, this document provides the details of key example process-specific activities that are to be carried by the system integrator. The same principles are then applied across all process scenarios to integrate the complete solution.

1.2 Target Audience

This document is intended for the following target audiences:

- Consultants
- Business Analysts
- System Administrators

1.3 Glossary

Term	Abbreviation	Definition
Advanced Business Application Programming	ABAP	The SAP programming language
Advanced Business Application Programming Object Oriented	ABAP OO	ABAP objects component of the ABAP programming language that allows object-oriented programming on the basis of classes and interfaces.
Annualised Advance	AA	As defined in the Data Transfer Catalogue (DTC). For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Application for Registration		An application by a supplier to be registered against supply number core data.
Application Link Enabling	ALE	The technology for setting up and operating distributed applications.

Term	Abbreviation	Definition
		Application Link Enabling (ALE) facilitates the distributed, but integrated, installation of SAP systems. This involves business-driven message exchange using consistent data across loosely linked SAP applications. Applications are integrated using synchronous and asynchronous communication, not by using a central database. ALE consists of the following layers: • Application services • Distribution services • Communication services
Associated Supplier		The supplier registered to the metering point that has issued a notice of objection with respect to the initiating supplier's registration and in this circumstance is the old supplier. The supplier who is required to respond to a dispute over a change of supplier meter reading or an erroneous registration notification.
Balancing and Settlement Code	BSC	Multilateral agreements for electricity. The document designated by the Secretary of State and adopted by NGC as the BSC pursuant to Condition 7 [A] of the Transmission License, and as given contractual force by the BSC Framework Agreement.
Balancing and Settlement Code Procedure	BSCP	
Business Add-In	BAdI	Business Add-Ins (BAdIs) are the basis for enhancements where BAdI methods in object plug-ins can be called from ABAP programs. By specifying filter values, the calling program controls which BAdI implementations are used. A BAdI consists of a BAdI interface, a set of filters and some settings.
Business as Usual	BAU	
Business Object Repository	BOR	The Business Object Repository (BOR) is the central access point for the SAP business object types and their BAPIs. The BOR was originally developed for SAP Business Workflow. Today, in addition to storing SAP business object types and their BAPIs, the BOR is used for ArchiveLink, output control, and other generic object services. The BOR provides the following services in the BAPI context: • Allows an object-oriented view of all data and processes in an SAP system Arranging the various business object types according to the component hierarchy. This enables you to find the required functions quickly and easily. • Contains all relevant information The BOR contains all the relevant information on the SAP business object types, their key fields, and their BAPI methods that is needed to integrate the correct object type definitions and

Term	Abbreviation	Definition
		BAPI calls in an application program. This enables the integration of middleware. such as the DCOM Connector, ActiveX Controls, CORBA Gateway, and so on. • Ensures BAPI interface stability Any interface changes carried out in the BOR are automatically checked for syntax compatibility against the associated development objects in the ABAP Dictionary. • Manages BAPIs in release updates BAPI interface enhancements made by adding parameters are recorded in the BOR. Previous interface versions can thus be reconstructed at any time. When a BAPI is created, the release version of the new BAPI is recorded in the BOR. The same applies when any interface parameter is created. • Creates instances of SAP business objects The runtime environment of the BOR receives requests to create runtime objects from client applications and creates the appropriate object instances.
Business Partner	BP	A natural or legal person or a group of natural or legal persons, not part of the business organization but with whom a business interest exists.
Business Process Exception Management	BPEM	Business Process Exception Management (BPEM) is used to analyze and monitor mass activities and online transactions. The BPEM process monitoring allows you to identify successful and incorrect processes at a glance. Problem messages that occur during processes are added to a clarification work list, using BPEM, and are distributed to the employees responsible. • Industry independent solution • Non-modifying standalone solution: can be implemented together with any SAP module • Analyze application messages of any business process • Analyze and monitor executed business processes in SAP • Data reduction for huge logs by removal of irrelevant messages • Analyzed data stored as extracts • Instant access to the information • Direct navigation from message to business object embedded as variable • Automatic or manual creation of cases for problems • Assignment of cases to a user group based on role resolution • Measure the performance of executed business processes in BW For more information, see the SAP Library at http://help.sap.com/saphelp_nw70/helpdata/EN/4e/91f6984f174730b0be192b3c9c5541/frameset.htm.
Central Meter Registration Service	CMRS	The service for the registration of CVA metering systems and associated data as defined in the Balancing and Settlement Code (BSC).

Term	Abbreviation	Definition
Change of Occupier	CoO	See the definition provided for Change of Tenancy (CoT).
Change of Supplier	CoS	A scenario wherein a customer stops purchasing a utility from one supplier and starts purchasing that utility from a different supplier. A registration, which has been confirmed by the relevant Meter Point Administration Service (MPAS), in relation to a new supplier undertaking responsibility for that metering point.
Change of Tenancy	CoT	A process which takes place based on the following specific switch scenarios: 1. Consumer A left the site (Move out) and Consumer B enters the site (Move In) and both have same supplier → Change of business partner in the system. 2. Consumer left Site A (Move out) and enters Site B (Move In) staying with same supplier → Business partner switches between two supply points.
Complex Debt Indicator		The field within the D0307 as defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
COMPR function module	COMPR	A function module that processes all inbound messages and determines what needs to be done with the content of the message.
Configuration		The definition of parameters that an SAP program uses to determine, for example, display modes, available functions and components, network communication, and connection with other programs.
Connection Object		A link between installation and postal regional structure. This is usually a building, but can also be a piece of property or other facility, such as a fountain or construction site. The connection object corresponds to the functional location in the Plant Maintenance (PM) application component.
Contract Account	CA	An account in which posting data for those contracts or contract items are processed for which the same collection/payment agreements apply. Contract accounts are managed on an open item basis within contract accounts receivable and payable.
Contract Volume Aggregation	CVA	
Custom Development Project	CDP	
Customer Acquisition and Validation System	CAVS	
Customer Descriptor		The data item (J0559) defined in the DTC. For more information,

Term	Abbreviation	Definition
		see the MRA site at http://dtc.mrasco.com/Default.aspx.
Customer Enhancement		An adjustment to the standard SAP system, requested by the customer. SAP designs empty modification modules at particular points in the standard system where customer enhancements are anticipated. These modules, known as exits, can be filled with customer-specific logic.
Customer own Reading	CoR	A meter reading provided by a customer.
Customer Reference Number	CRN	As defined in the DTC, it is the customer's own reference number. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Customer Requested Objection	CRO	An objection raised, pursuant to Condition 14.4(c) of the Electricity Supply License.
Customer Transfer Process	CTP	As defined in the DTC, it is a unique identifier for a Smart Card customer. This includes Supplier Reference and Customer Reference Number. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Customizing		Overall implementation procedure to set up one or more SAP systems at a customer site. The procedure aims to: • Adjust the company-neutral and industry-specific delivered functions to your company's business requirements • Enhance SAP functions in the company • Implement SAP functions in your company quickly, safely, and cost effectively
Data Aggregator	DA	The organization appointed to aggregate the meter-reading/settlement data received from the appointed Data Collectors (DC) and forward it to suppliers. A function of this aggregation process is the comparison of registration data provided to it, in separate streams, from NHHDC and MPAS.
Data Collector	DC	The organization responsible for collecting, processing and validating the meter reading data, which then passes the information to the Data Aggregator (DA). The DA, for example, collects customer meter readings at a frequency determined by the supplier.
Data exchange	DATEX	Process that monitors and controls, according to point of delivery, the transfer of messages within Intercompany Data Exchange (IDEX).
Data Protection Act	DPA	Data Protection Act 1998
Data Transfer Catalogue of MRA	DTC	The Data Transfer Catalogue (DTC) accommodates the inter-operational exchange of information, enabling effective interface between industry participants. For more information, see the Master Registration Agreement (MRA) site at

Term	Abbreviation	Definition
		http://dtc.mrasco.com/Default.aspx.
Data Transfer Network	DTN	
De-energisation		In relation to any boundary point or systems connection point (or the plant or apparatus connected to any system at such a point), the movement of any isolator, breaker or switch, or the removal of any fuse whereby no electricity can flow at such point to and from a system.
Device Info Record		Contains devices that are maintained by or belong to other companies. A data record in the Utilities Industry (SAP IS-U) contains only devices in the SAP IS-U component. A record may contain the following types of devices: • Metering devices (meters) • Controlling devices (ripple control receivers) • Data processing devices (converters) • Devices that protect or adjust (pressure regulators)
Distribution Connection and Use of System Agreement	DCUSA	Multilateral agreements for electricity
Distribution System Operator/ Distributor	DSO	Distribution Business (BSC Terminology is Distribution System Operator)
Distribution Use of System	DUoS	Charge for use of the distribution networks that are invoiced by the distributor to the supplier.
Division Category		Type of supply or service that is predefined in the Utilities Industry (SAP IS-U) component. Examples of division categories are electricity, gas and water.
Drill Down		To do a detailed navigation into a query result by expanding a dimension into values for each of its members, and adding these values to additional rows in the result. You can also drill across, where values for the selected dimension are added to additional columns. This is also commonly referred to as drilling down.
Earliest Re-submission Date		As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Electricity Central Online Enquiry Service	ECOES	
End 2 End Diagram	E2E	
Enhancement		An addition to an SAP standard program made at a user exit. An enhancement does not change R/3 Repository objects. With the ABAP Development Workbench, you can develop any R/3 Repository Objects. Enhancements are not affected by upgrading to a new release.

Term	Abbreviation	Definition
Enhancement Package	EhP	A collection of new and improved business functions for SAP Business Suite and SAP ERP. Enhancement packages represent a new SAP approach to accelerate the delivery of innovation to customers via optional packages. Rather than engaging in large upgrade projects, customers can take advantage of ongoing business innovation while keeping their core systems stable. These optional enhancement packages can be configured in a completely modular fashion by “switching on” only the new features and functionalities those customers want.
Enterprise Service-Oriented Architecture	Enterprise SOA	A software architecture that uses policies, practices, and framework to enable application functionality to be provided and consumed as sets of services. These services are published at a level of granularity relevant to service consumers.
Erroneous Transfer	ET	An Erroneous Transfer occurs where a customer is transferred to a supplier without a valid contract in place and the Application for Registration is processed in the relevant MPAS Registration System (see MAP 10). The business process Erroneous Transfer is only used for residential customers. Instead, for business customers, a bilateral agreement exists.
Estimated Annual Consumption	EAC	As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Estimated Total Debt Outstanding		As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Failed	F	Regarding validation of electricity meter reading, the non-valid meter reading is "failed". The opposite of “failed” is "valid".
Flow Management Solution		A software which transforms the SAP IDoc data structure to the United Kingdom (UK) industry-specific data structure and vice versa.
Grid Supply Point	GSP	A connection from the national grid to a distribution network, that is, a systems connection point at which the transmission system is connected to a distribution system. Currently there are 14 GSP Groups in the United Kingdom (UK).
Grid Supply Point Group	GSP Group	A distinct electrical system, consisting of: (i) The distribution system(s) that are connected to the transmission system at (and only at) Grid Supply Point(s), which fall within one Group of GSPs, and (ii) Any distribution system that: (1) is connected to a distribution system in paragraph (i), or to any other distribution system under this paragraph (ii), (2) is not connected to the transmission system at any Grid Supply Point and the total supply into which is determined by metering for each half hour.
Guaranteed Standards	GS	

Term	Abbreviation	Definition
Half-Hourly Data Aggregator	HHDA	
Half-Hourly Data Collector	HHDC	
Half-Hourly Metering	HH	Sites with a peak load above 100kW are equipped with "half hourly" primary meters. This means that total consumption is recorded every half hour and this information is automatically retrieved from the meter and passed to the energy supplier.
Industrial & Commercial Customers	I&C	
Initial Allocation and Reconciliation Agent	IARA	Profiles supplier consumption into half-hour values to calculate energy purchases. This is part of the settlement process.
Initiating Supplier		The supplier who raises a dispute over a change of supplier meter reading or raises an erroneous registration notification, whether such supplier is old or new supplier.
Installed Base	IBase	Technical master data combining connection object, device, register, premise and Point of Delivery (POD).
Intercompany Data Exchange	IDEX	An add-on to Utilities Industry (SAP IS-U) component. It supports the established industry processes as part of the energy deregulation for the energy supply of metered metering points and unmetered sites. IDEX UK also supports the corresponding market communication according to the British market rules for the market roles.
Intermediate Document	IDoc	Standard SAP format for electronic data interchange between systems. Different message types, for example, delivery confirmations or purchase orders, normally represent the different specific formats, known as IDoc types. Multiple message types with related content can be assigned to one IDoc type.
Line Loss Factor	LLF	As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Market Agent	MA	
Market Domain Data	MDD	
Market Domain Data Agent	MDDA	
Market Participant ID	MPID	
Market Participant Role Code	MPRC	
Master Data	MD	The information that remains the same over a long period of time in the system. Master data contains information that is needed often and in the same form.

Term	Abbreviation	Definition
Master Data Generator		Program that uses the master data template to create master data.
Master Registration Agreement	MRA	Multilateral agreements for electricity.
Master Registration Agreement Service Company (Gemserv)	MRASCo	
Measurement Class	MC	The measurement class of a metering system, for example, above 100kW, below 100kW, remains unmetered.
Meter Asset Provider	MAP	
Meter Operator	MO(P)	Responsible for the installation, removal and maintenance of meters installed on a customer's premise.
Meter Point Administration Details	MPAD	Details assigned to a metering point.
Meter Point Administration Number (Core)	MPAN (Core)	A 13-digit number (the bottom line of the supply number) made up of the distributor identifier (first two digits), the company that provides the distribution network for the supply address. It is a meter point unique reference (11-digit number), which is linked to the supply address.
Meter Point Administration Service	MPAS	The Meter Point Administration Service (MPAS) maintains a record of all properties within its geographic area including details of supplier, agents and key registration data items. It can be defined as a market role performed by a system.
Meter Point Number	MPN	This is Meter Point Administration Number (MPAN) for electricity.
Meter Point Registration System	MPRS	The Meter Point Registration System (MPRS) is owned by the distribution companies. It contains all the MPANs for that distribution area. It can be defined as a market role performed by a system.
Meter Reading	MR	As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Meter Reading on Change of Supplier	MRoCoS	The meter reading issued (D0086) as the initial meter reading for the new supplier and the final meter reading for the old supplier on a change of supplier.
Meter Serial Number / Meter ID	MSN	A 9 or 10-digit alphanumeric reference used in the United Kingdom (UK) to identify an electricity meter.
Meter Technical Details	MTD	All technical details, including outstation channel mapping, of a metering system required to enable metered data to be collected and correctly interpreted from that metering system. This is as referred to in BSCP20, BSCP502 or (as the case may be) BSCP504.

Term	Abbreviation	Definition
Meter Timeswitch Code	MTC	As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Meter Type	MT	As defined in the DTC. Indicates the type of meter - Half-Hourly or Non-Half-Hourly. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Metered Supply Point	MSP	Point at which the meter measuring a customer's consumption is located.
Metering Point	MP	As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Metering Point Administration Service Agent	MPAS Agent	BSC Terminology is Supplier Meter Registration Agent – SMRA
Metering System	MS	
Modification		Change made to R/3 Repository objects for a particular customer. In the event of changes made by SAP, modified R/3 Repository objects must be reviewed and, where necessary, adapted.
Move In		Depends on the context, Move In process takes place as follows: UK Industry: Move In is a sub process of the Change of Occupier (CoO) process. This includes the receiving and processing of customer details, and special needs, as well as managing of meter reading of move in date and providing that information to the relevant market participants. SAP IS-U: Move In is defined as a function including most activities that are required to start providing a business partner with a utility service. Among those activities are creation/change of existing business master data, allocation of a contract to an installation, establishing whether a contract can be billed, triggering the charges levied at the commencement of a utility service and sending a welcome letter to the customer.
Non-Half-Hourly Data Aggregator	NHHDA	
Non-Half-Hourly Data Collector	NHHDC	
Non-Half-Hourly Data Retriever	NHHDR	
Non-Half-Hourly Metering	NHH	Sites that take a power supply less than 100kW. Refers to meter equipment or data that is for a time period other than half hourly, normally monthly or longer.
Notice of Objection		As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.

Term	Abbreviation	Definition
Notification of Old Supplier Information	NOSI	A DTC message in which the old supplier notifies the new supplier of existing billing information.
Notification of Termination of Registration		As defined in MRA Schedule 3 and the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Objection Raising Period		The period from and including the time that the notification to the old Supplier pursuant to Clause 15.9 is sent from the MPAS registration system to the relevant MPAS provider's gateway up to but not including 18:00 hours on the fifth working day thereafter.
Objection Resolution Period		The period from and including the time that the Message confirming that the Notice of Objection has been Accepted is sent from the MPAS Registration System to the relevant MPAS Provider's Gateway up to but not including 18:00 hours on the fifth Working Day thereafter.
Opening Meter Read Provider		
Party Service Lines (120)	PSL120	
Performance Assurance Reporting and Monitoring System	PARMS	The system established inter alia for the purpose of recording and monitoring compliance by suppliers with their obligations pursuant to the BSC.
Persistence		The technical term for permanently storing data, so that it still remains after being used within a program.
Point of Delivery	POD	De-regulated Point of Delivery. Representation within SAP of an individual utility connection to which a utility service is supplied, or for which a utility service can be determined. The POD is used as a communication basis within the industry.
Point of Sale	PoS	
Post Office Address Format (Number + Postcode)	PAF	Data file available from Royal Mail. Every house and business in the United Kingdom (UK) is given a postal address by Royal Mail. This address is used as a routing instruction by Royal Mail staff to sort and deliver mail quickly and accurately. However, it is not always a geographically accurate description of where a property is located. • Organization: Organization Name(60), Department Name(60) • Premise: Sub Building Name(30), Building Name(50), Building Number(4) • Thoroughfare: Dependent Thoroughfare Name(60), Dependent Thoroughfare Descriptor(20), Thoroughfare Name(60), Thoroughfare Descriptor(20) • Locality: Double Dependent Locality(35), Dependent Locality(35), Post Town(30) • Postcode: Postcode (7)

Term	Abbreviation	Definition
		• PO Box: PO Box (6)
Premise		Enclosed spatial unit that is supplied with energy, such as an apartment or factory.
Process Code		The second name for a specific processing type, such as for a function module or an SAP Business Workflow task. Typically, a specific IDoc type is assigned a specific process code. If you want to change the processing type of this IDoc type, you must assign the corresponding process code to the new processing type at one place. Without the process code, you would have to assign this IDoc type to the new processing type directly in several places. There are four types of process codes that correspond to the IDoc interface processing types: outbound, inbound, status processing, system process codes for exception handling.
Processability		Describing the characteristic of a data value, for example, a meter reading. This can be processed without causing exceptions.
Profile Administrator		
Profile Class	PC	As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Rejected	Rej/RJ	Regarding validation of gas meter reading, the non-valid meter reading is "rejected". The equivalent for electricity is "failed". The opposite is "valid". The equivalent for electricity is "rejected". In relation to a message or file, to reject such message or file on the grounds that it does not comply with the relevant MPAS validation procedures and “Rejection” shall be construed accordingly. For the avoidance of doubt, rejection shall not involve any subjective judgment by the MPAS provider.
Related Metering Points	Related MPAN	The following cases are considered: (a) Two or more metering points (other than export metering points and pseudo metering points) that supply to the same customer and are located at the same (or any part of the same) premises, or (b) Two or more metering points (other than export metering points and pseudo metering points) relating to unmetered supplies. The supply numbers attributable to them are stated within a single unmetered supplies certificate issued by the distribution business. In either case, in circumstances where the charges applied for electricity supplied through those metering points are mutually conditional.
Remote Function Call	RFC	Call of a function module that runs in a different system (destination) from the calling program. Connections are possible between different AS ABAP systems as well as between an AS

Term	Abbreviation	Definition
		ABAP and a non-SAP systems. In non-SAP systems, instead of function modules, special programmed functions are called, whose interface simulates a function module. A distinction is made between synchronous, asynchronous, and transactional function calls. The called system is accessed via the RFC interface.
Reports, Interfaces, Conversions, Enhancements and Forms	RICEF	
Revenue Protection Service	RPS	
Sales Order	SO	The following options are considered: Option 1: A customer request to the company for delivery of goods or services at a certain time. The request is received by a sales area that is then responsible for fulfilling the contract. Option 2: (valid for SOA) An agreement between an organization and a customer, where the organization agrees to supply a defined amount of products for an agreed price by a specified date.
SAP Business Workflow		You use SAP Business Workflow (WebFlow Engine) to define business processes that are not yet mapped in the SAP system. These may be simple release or approval procedures, or more complex business processes such as creating a material master and the associated coordination of the departments involved. SAP Business Workflow is particularly suitable for situations in which work processes have to be run through repeatedly, or situations in which the business process requires the involvement of a large number of agents in a specific sequence. You can also use Business Workflow to respond to errors and exceptions in other existing business processes. You can start a workflow when predefined events occur, for example, an event can be triggered if particular errors are found during an automatic check. SAP provides several workflows that map predefined business processes. These workflows do not require much implementation effort. The Workflow Engine is a logical system (system and client) in the transport domain in which the transport workflow runs. The Workflow Engine operates as a server that provides your entire transport domain with the transport workflow functions. For more information, see the SAP Library at http://help.sap.com/saphelp_nw04s/helpdata/en/95/4b45b4b04211d2a5f80060087a79ea/frameset.htm.

Term	Abbreviation	Definition
SAP Customer Relationship Management	SAP CRM	A comprehensive solution for managing your customer relationships. It supports all customer-focused business areas, from marketing to sales and service, as well as customer interaction channels, such as the Interaction Center, the Internet, and mobile clients. SAP CRM is part of SAP Business Suite. SAP CRM includes features and functions to support core business processes in the following areas: • Marketing • Sales • Service • Partner Channel Management • Interaction Center • Web Channel For more information, see: • SAP Library at http://help.sap.com/saphelp_crm60/helpdata/en/1a/023d63b8387c4a8dfea6592f3a23a7/frameset.htm • SAP Service Marketplace at http://www.service.sap.com/crm
SAP Enterprise Resource Planning	SAP ERP	Redefines enterprise resource planning – delivering role-based access to crucial data, applications, and analytical tools. With SAP ERP, you can efficiently deal with business challenges in the following areas: • End-user service delivery • SAP ERP Financials • SAP ERP Human Capital Management • SAP ERP Operations • SAP ERP Corporate Services • Performance management For more information, see the SAP Service Marketplace at http://www.service.sap.com/erp.
SAP Industry Solution for Utilities	SAP IS-U	The SAP IS-U component is a sales and information system that supports all business processes and utility services of a utility company. You can use SAP IS-U for managing and billing residential, commercial and industrial, and prospective customers. This component also allows you to manage and bill customers who receive services, purchase goods, or pay fees and taxes. The main functions of SAP IS-U are as follows: • Customer Care and Service (SAP IS-U-CCS) is a solution that meets the requirements of customer information and billing • Energy Data Management (SAP IS-U-EDM) is a solution that meets the requirements of interval reading, schedule management, and the billing of interval energy consumption • Work Management combines various SAP components and enhances them to include industry-specific functions for planning, calculating, executing, and billing work orders • Waste and Recycling (SAP IS-U-WA) is a comprehensive

Term	Abbreviation	Definition
		logistics, billing, service, and customer service system that covers all the business processes required by a waste disposal company • Intercompany Data Exchange (SAP IS-U-IDE) is a solution that covers the requirements that have arisen from the deregulation of energy markets. For more information, see the SAP Library at http://help.sap.com/erp2005_ehp_03/helpdata/EN/c6/4dce68eafc11d18a030000e829fbbd/frameset.htm.
SAP Industry Solution for Utilities, Customer Care and Service	SAP IS-U-CCS	The Customer Care and Service (SAP IS-U-CCS) is a solution that meets the requirements of customer information and billing. The main functions are as follows: • Basic Functions: Manage addresses and regional structures, as well as generating dates and schedules for meter readings, billings, and budget billings. • Master Data: Manage data that remains fixed for long periods of time. In SAP IS-U, this data includes the business partners, contracts and contract accounts, connection objects (buildings and real estate) and the premises, installations, and device locations contained therein. • SAP IS-U Billing component is used for billing the following standard divisions: electricity, gas, water/waste water, district heating, and multimedia services, for example, cable TV. • SAP IS-U Invoicing component enables you to group services and invoice them on one bill. You can also use the component to calculate and charge fees and taxes. • Customer Service: you can use the front office to display all data and start frequently used business processes. In Internet-Self-Services your customers can send you new data or changes to their existing data via the Internet. For example, they can grant you collection authorization or register a move-in. For more information, see the SAP Library at http://help.sap.com/erp2005_ehp_03/helpdata/EN/c6/4dce68eafc11d18a030000e829fbbd/frameset.htm.
SAP Industry Solution for Utilities, Energy Data Management	SAP IS-U-EDM	The Energy Data Management is a solution that fulfills requirements by offering interval reading, settlement of energy quantities, scheduling, and billing of interval energy consumption. The Energy Data Management (SAP IS-U-EDM) component is fully integrated into the SAP IS-U system and can be installed in an existing SAP IS-U system as a new component. SAP IS-U-EDM is also integrated into Intercompany Data Exchange (SAP IS-U-IDE). This component allows for data exchange in standardized formats and enables the integration of cross-company business processes. SAP IS-U-EDM allows you to bill profiles in SAP for Utilities. Profiles are prepared in SAP IS-U-EDM and transferred to SAP for Utilities billing via an internal interface. This allows you to bill new types of contracts, such as

Term	Abbreviation	Definition
		spot purchases. SAP IS-U-EDM also interfaces with automated meter reading systems. For more information, see the SAP Library at http://help.sap.com/saphelp_utilities472/helpdata/en/81/a0023b288dd720e10000000a114084/frameset.htm.
SAP Industry Solution for Utilities, Intercompany Data Exchange	SAP IS-U-IDE	The Intercompany Data Exchange is a solution that meets the demands of deregulated energy markets with the following main features: • Administration of Deregulation Data: Deregulation data includes points of delivery, grids, point of delivery services and service providers. • Process Management: Process management allows you to trigger processes for inbound communication: simple processes such as changes to business partner master data, as well as a complex workflow for processing enrolment. Outbound communication does not usually require complex process management. Many existing SAP for Utilities processes trigger outbound communication. For this reason, communication events have been created in the standard SAP for Utilities system. These trigger communication in accordance with the Customizing settings. • Processing Data Exchange Processes For more information, see the SAP Library at http://help.sap.com/saphelp_utilities472/helpdata/en/f5/7ce4382763855ee10000000a114084/frameset.htm.
SAP NetWeaver	SAP NW	A web-based, open integration and application platform that serves as the foundation for enterprise service-oriented architecture (enterprise SOA) and allows the integration and alignment of people, information, and business processes across business and technology boundaries. It utilizes open standards to enable integration with information and applications from almost any source or technology. SAP NetWeaver is the foundation of SAP Business Suite and SAP Business ByDesign, and also powers partner solutions and customer custom-built applications. Components: • SAP NetWeaver Application Server • SAP NetWeaver Business Intelligence • SAP NetWeaver Business Process Management • SAP NetWeaver Exchange Infrastructure • SAP NetWeaver Master Data Management • SAP NetWeaver Mobile • SAP NetWeaver Portal • SAP Auto-ID Infrastructure • SAP NetWeaver Identity Management For more information, see the SAP Community Network at

Term	Abbreviation	Definition
		http://scn.sap.com/community/netweaver.
SAP NetWeaver Business Intelligence	SAP NW BI	The reporting, analysis and interpretation of business data is of central importance to a company in guaranteeing its competitive edge, optimizing processes, and enabling it to react quickly and in line with the market. With Business Intelligence (BI), SAP NetWeaver provides data warehousing functionality, a business intelligence platform, and a suite of business intelligence tools with which an enterprise can attain these goals. Relevant business information from productive SAP applications and all external data sources can be integrated, transformed, and consolidated in BI with the toolset provided. BI provides flexible reporting, analysis, and planning tools to support you in evaluating and interpreting data, as well as facilitating its distribution. Businesses are able to make well-founded decisions and determine target-orientated activities on the basis of this analysis. For more information, see: • SAP Library at http://help.sap.com/saphelp_nw70/helpdata/EN/e3/e60138fede083de10000009b38f8cf/frameset.htm • SAP Service Marketplace at http://www.service.sap.com/bi
SAP NetWeaver Portal		The portal offers a single point of access to SAP and non-SAP information sources, enterprise applications, information repositories, databases and services in and outside your organization, all integrated into a single user experience. It provides you the tools to manage and analyze this knowledge, and to share and collaborate on the basis of it. With its role-based content, and personalization features, the portal enables users, from employees and customers to partners and suppliers, to focus exclusively on data relevant to daily decision-making processes. The main features are as follows: • Knowledge Management offers capabilities that everyone can use to distribute, access, and manage unstructured information within an organization through a heterogeneous repository landscape. • Collaboration brings users, information, and applications together to ensure successful cooperation. • Guided Procedures offers a set of functions that enables a business expert to create reusable components and model people-centric business workflows with them. For more information, see the SAP Library at http://help.sap.com/saphelp_nw70/helpdata/EN/a4/76bd3b57743b09e10000000a11402f/frameset.htm.
SAP NetWeaver Process Integration	SAP NW PI	SAP NetWeaver Process Integration is an open integration and application platform that provides tools that enable you to create a service-oriented architecture for business applications

Term	Abbreviation	Definition
		(enterprise SOA). SAP NW PI supports the following key capabilities: • Enterprise Services Repository & Registry • Functions for the design, configuration, and execution of integration processes (process automation) • BAM infrastructure for handling events from application systems in integration processes • Service Bus for exchanging messages in a heterogeneous system landscape • Infrastructure Services of SAP NetWeaver Application Server (ABAP and Java) on which SAP NetWeaver PI applications run For more information, see: • SAP Library at http://help.sap.com/saphelp_nwpi71/helpdata/en/c0/3930405fa9e801e10000000a155106/frameset.htm • SAP Community Network at http://scn.sap.com/community/pi-and-soa-middleware
Search and Classification	TREX	Search and Classification (TREX) provides SAP applications with numerous services for searching, classifying, and text-mining in large collections of documents (unstructured data) as well as for searching in and aggregating business objects (structured data). TREX processes documents in a wide variety of formats and in more than 30 languages. For more information, see the SAP Library at http://help.sap.com/saphelp_nw70/helpdata/EN/70/0837ced133304eba452c45b6047c74/frameset.htm.
Service Provider	SP	Company that offers one or more of the following services (service types): energy generation, energy sales, energy supply, energy transmission, energy distribution, meter installation and maintenance, meter reading. A service provider is uniquely allocated to a service type.
Service Type		User-defined version of the service category predefined by SAP. It is possible to allocate several service types to a service category.
Settlement		Depends on the context, settlement takes place as follows: SAP: Comparison of energy supplied and energy used. The balance is communicated to the corresponding settlement coordinator. For example, the actual or forecast consumption of all points of delivery in a settlement unit can be grouped together for settlement purposes. United Kingdom (UK): The determination and settlement of amounts payable in respect of trading charges (including reconciliation charges) in accordance with the Code (includes where the context admits volume allocation).
Settlement Day	SD	

Term	Abbreviation	Definition
Site Visit Check Code	SVCC	
Skeleton Record		The initial record on the MPAS registration system for a metering point that contains: (i) Supply Number core data (ii) Data item 6 of Schedule 2 for the metering point (iii) Data item 9 of Schedule 2 for the metering point (iv) Data item 15 of Schedule 2 for the metering point (v) Data item 18 of Schedule 2 for the metering point, where applicable; where data item 6 of Schedule 2 for the metering point may be a default value
Small & Midsized Enterprises	SME	Small and medium enterprises or SMEs, also called small and medium-sized enterprises and small and medium-sized businesses or small and medium businesses or SMBs, are companies whose headcount or turnover falls below certain limits.
Service Provider Agreement	SP Agreement	The agreement made between two participating service providers regarding the processes necessary to supply energy to a point of delivery.
Standard Address File (PAF + street name, house number, and others)	SAF	SAF means the completion of data items 9 and 9A of Schedule 2 as below: • Metering Point Address Line 1 = Free Text • Metering Point Address Line 2 = Sub-building Name/Number • Metering Point Address Line 3 = MRA Version 9. 8 27 Building Name/ Number • Metering Point Address Line 4 = Dependent Thoroughfare; • Metering Point Address Line 5 = Thoroughfare; • Metering Point Address Line 6 = Double Dependent Locality; • Metering Point Address Line 7 = Dependent Locality; • Metering Point Address Line 8 = Locality (Post Town); • Metering Point Address Line 9 = County; • Metering Point Postcode = Postcode
Standard Settlement Configuration	SSC	As defined in the DTC. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Supplier Meter Registration Service	SMRS	The Supplier Meter Registration Service (SMRS) has the following functions: • Provides suppliers with information relating to their MSIDs • Provides (Non) Half Hourly data aggregators with MSID information • Receives and processes supplier data • Makes bulk change of Non Half Hourly supplier agents • Receives and processes licensed distribution system operator data • Receives and processes market domain data • Enables transfers of registrations between SMRS and CMRS • Enables new connections where the same metering equipment

Term	Abbreviation	Definition
		at an exemptible generating plant is comprised in both a Supplier Volume Allocation (SVA) metering system and a Contract Volume Aggregation (CVA) metering system, where export active energy is traded in CVA and import active energy is traded in SVA
Supplier Volume Allocation	SVA	Non Half Hourly: Profiled consumption for each half hour Half Hourly: Actual consumption for each half hour
Supplier Volume Allocation Agent	SVAA	The main functions of the SVAA are: • Calculation of daily profiles • Execution of volume allocation runs (VAR) • Management of market domain data • Re-calculation of AFYC and EAC values • Provision of national help desk
Supply End Date	SED	The last inclusive settlement date of a supplier's registration to a metering system.
Supply Scenario		Scenario for energy supply implemented in the system. Note that there are different supply scenarios for electricity and gas.
Supply Services Area		As defined in the SLC 53B of the Electricity Supply License.
Supply Start Date / Supply Switch Date	SSD	As defined in the MRA. For more information, see the MRA site at http://dtc.mrasco.com/Default.aspx.
Switch Document		The document which controls and documents the IDEX processes in the system.
Switch View		The view from which the change of supplier process is considered.
Time Based Debt Recovery	TBDR	
Transaction Reference		Includes, amongst other data items, Customer Descriptor (J0559), PAN Number (J0525), or Key Meter Supplier/Customer ID (J0582) as appropriate to the Meter Type (J0483).
Unmetered Supplies Operator	UMSO	
Unmetered Supply	UMS	Supply of electricity to a particular inventory of apparatus, in respect of which a licensed distribution system operator has issued an unmetered supply certificate.
Valid	V	Regarding validation of electricity meter reading, the valid meter reading is "valid". The opposite of “valid” is "failed".

1.4 Related Information

You can find related information in the following resources:

Resource	Quick Link on SAP Service Marketplace
Configuration Guide for process and data-exchange framework for utilities 1.0	http://service.sap.com/swdc → *Installations and Upgrades (index "P")* → *PROCESS/XCHG FRAMWORK UTIL* → *PROCESS/XCHG FRAMWORK UTIL 1.0* → *Technical Documentation*

1.5 Important SAP Notes

Recommendation

Make sure that you read the SAP Notes before you start implementing the software. The SAP Notes contain the latest information about the installation as well as corrections to the installation information.

Also make sure that you have the up-to-date version of each SAP Note, which is available on SAP Service Marketplace at https://service.sap.com/notes.

SAP Note Number	Title	Description
1685414	IDXPF 604: Installation on ERP 6.0 EHP4/EHP5/EHP6/EHP7	See this note for information about the download path for the software and documentation, the software installation, as well as the activation of the BC sets among others.
2013933	Release Strategy for the ABAP Add-on IDXUK	See this note for information about the download path for the software and documentation, and the software installation among others.

2 Solution Overview

The *intercompany data exchange for UK electricity suppliers* is a solution to manage the flow of intercompany messages that are exchanged each day between the various companies operating in the complex, deregulated UK utility market. For instance, when a customer moves from one supplier to another UK based provider, managing a customer's changeover to a new utility is complex for all market participants involved in the switch process. The old provider must supply a great deal of information about the customer to the new one, such as account data, meter readings and type of meter installed, among many other things. This information is delivered in market messages that can take many forms such as e-mails and data flows.

The solution enables an electricity supplier to automate message handling and to manage message exchange effectively. The end result is a well-managed, accelerated business processes.

The software provides accurate message processing by handling them in the right time and the right sequence. The software enables the missing messages to be identified and located, and then sequenced in a correct order. It detects the corrupt data which are then routed to the SAP's Business Processes Exception Management toolkit.

The software covers more than 50 industry processes within the UK electricity market such as Change of Supplier Win and Change of Supplier Loss among many others. The solution supports both household and commercial customers as metered and unmetered sites.

The solution provides the components for:

- Process definition for all regulatory required processes for electricity from the view point of supplier role
- Validations for messages and exceptions handling
- Deadline monitoring according to the regulatory rules
- Message inbound and outbound handling, including mapping and message parsing

The *intercompany data exchange for UK electricity suppliers* solution is build based on the *process and data-exchange framework for utilities* which is a generic solution to manage intercompany data exchange processes. For more information, see the Configuration Guide for *process and data-exchange framework for utilities*.

The figure below depicts an architectural overview of the *intercompany data exchange for UK electricity suppliers* and the SAP components involved:

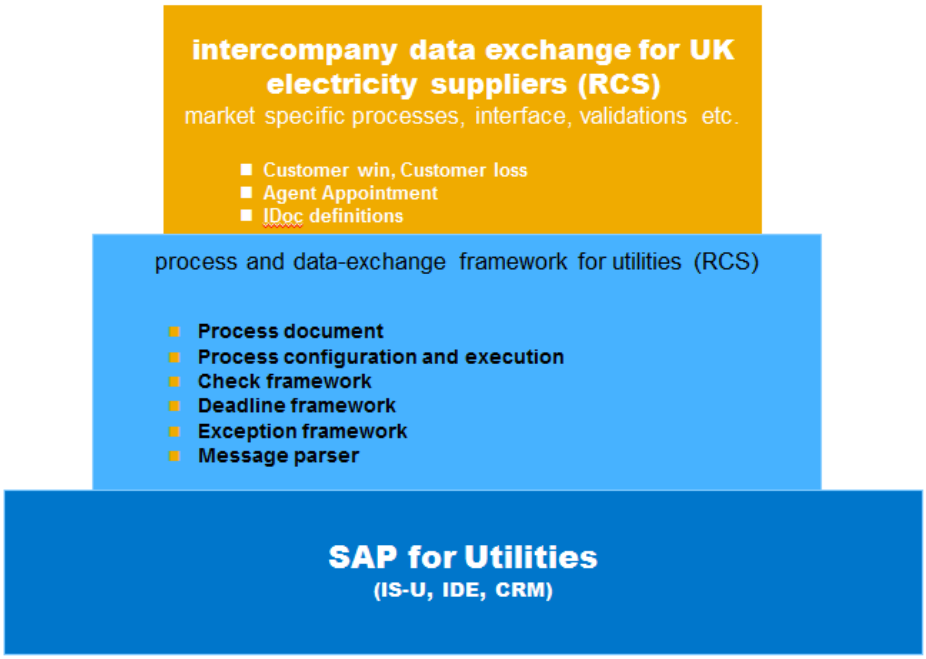


Figure 1: Architecture Overview of IDEX UK

The software receives or sends the market messages that are exchanged as Intermediate Document (IDoc; the internal SAP format). In order to enable the market communication with other market participants, a market communication mechanism is required that ensures the proprietary data flow formats of the utilities industry that also works with the internal format used by SAP.

Running the processes delivered within this solution requires the end-to-end integration activities that are to be carried out in order to integrate the solution into the overall SAP IS-U landscape. The software has to be enabled to trigger the follow-on activities in SAP IS-U upon receipt of a market message, for example.

The figure below depicts an overview of the end-to-end IDEX integration with the components and processes involved:

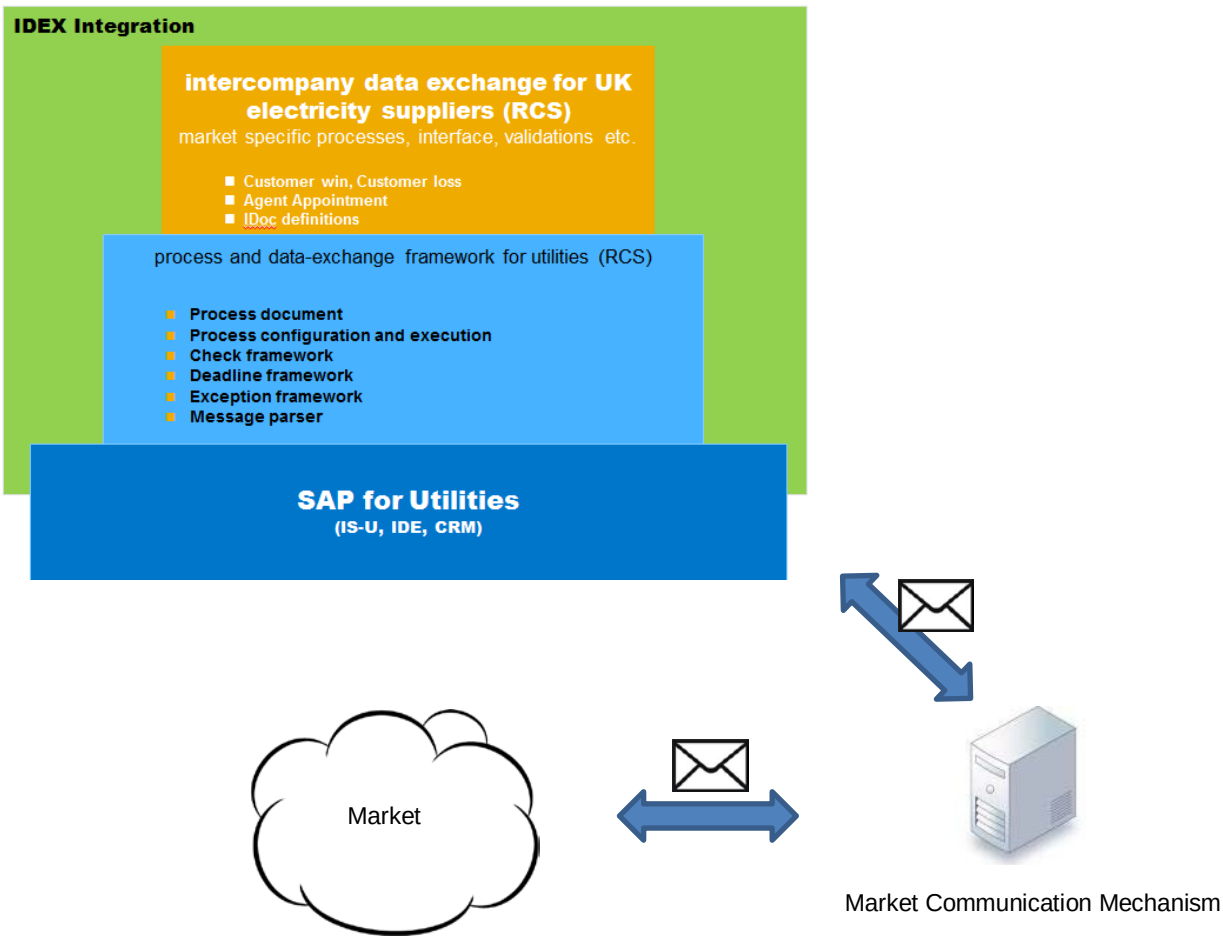


Figure 2: IDEX Integration Overview with Components and Processes

3 Solution Manager Information

3.1 System and Application Landscape

The following systems are the basis for the *intercompany data exchange for UK electricity suppliers*:

Logical Component (Proposed)	Product (Main Instance)	Product Version
IDEX-UK	IDEX UK (IDEX on ECC)	IDEX UK 1.0
IDEX-PF	IDEX PF (IDEX for PF)	PROCESS/XCHG FRAMWORK UTIL 1.0
IS-UT_604	SAP ERP ENHANCE PACKAGE (Utilities/Waste&Recycl./Telco)	EHP4 FOR SAP ERP 6.0

3.2 Prerequisites

The following configuration steps shall be performed after installation of the solution.

3.2.1 General Activities

In summary, you will perform the following activities to configure the solution:

- Verify that all required configuration settings have been done

  You will maintain the configuration settings mainly in the Customizing for the following products:

Product	Path to Customizing Structure
SAP Utilities	SAP Customizing Implementation Guide (transaction code **SPRO**) → *SAP Utilities*
Process and Data-Exchange Framework for Utilities	SAP Customizing Implementation Guide (transaction code **SPRO**) → *SAP Utilities* → *Intercompany Data Exchange* → *Process and Data-Exchange Framework for Utilities*
Intercompany Data Exchange for UK Electricity Suppliers	SAP Customizing Implementation Guide (transaction code **SPRO**) → *SAP Utilities* → *Intercompany Data Exchange* → *Intercompany Data Exchange for UK Electricity Suppliers*

- Verify all required SAP Notes have been applied

3.2.2 Solution Configuration

After activating the BC sets detailed in the chapter 3.2.2.1 below, the corresponding IDEX processes and their steps can be found in the Customizing (transaction code **SPRO**) for *SAP Utilities* under *Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Configuration → Define Process Configuration*.

The following sub-chapters provide an overview of the individual configuration steps which lead to the configuration of the business scenarios based on the IDEX UK processes, for example, Change of Supplier and Agent Appointment.

3.2.2.1 BC Set Activation

The process configuration is delivered via the BC sets. These BC sets must be activated in the supplier client by executing the transaction code **SCPR20** in the sequence defined below. You must ensure no errors are left after the final activation of the BC sets.

The following list indicates the order in which the BC sets must be activated:

- /IDXUK/BC_EMMA_OBJECT
- /IDXUK/BC_IDXUK_IMG_COMPLETE
- /IDXUK/BC_IDXUK_CRSCLNT_OBJ

3.2.2.2 Check Framework Configuration

The check framework provides validations and checks that are triggered in the system during the execution of processes, for example, Change of Supplier. These checks have been built based on the industry requirements defined for the UK utility market and enabled the solution to detect corrupt data.

The configuration of the check framework is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.3 Response Code Configuration

You can use the response code configuration to define the possible response codes per process and process step that the IDEX solution can receive via the market messages.

For further details on how response codes are configured, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → In-/Outbound Message Handling → Define Response Code Handling*.

The solution provides a default response code configuration which includes typical response codes received in a response message in the UK utility market.

The configuration of response codes is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.4 Master Data Validation Setting with Corresponding Outcomes

The system uses this configuration to compare the information received within the market message with the data received for a different market message or the current view of the data within the system.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Check Framework → Define Data Validations*.

The solution provides a default `master data validation` setting for inbound messages such as D0217 to compare the message data received against the data held in the system.

The configuration of master data validations is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.5 Process Configuration

The process represents the intercompany data exchange process and caters to step processing checks, orchestration, and execution.

For further details on process configuration and its use, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Configuration → Define Process Configuration*.

The solution provides a default process configuration for supplier-specific intercompany data exchange processes such as Change of Supplier and Agent Appointment that are defined for the UK utility market.

The settings for `process configuration` are provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.6 Period Type Configuration for Hour/Minute/Second

The period types are used to calculate deadlines to be considered during the intercompany data exchange processes.

The solution provides default period types to calculate objection periods or deadlines to monitor whether a response message has been received.

For further details on how the period types are configured and used, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Configuration → Define Period Type (Hour/Minute/Second)*.

The configuration of SAP standard period type for day is provided.

3.2.2.7 Process Status Configuration

The process status is referenced in the process status configuration. For more information, see the Configuration Guide for *process and data-exchange framework for utilities*.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Configuration → Configure Process Status*.

3.2.2.8 Process Step Status Configuration

The process step status is referenced in the process step status configuration. For more information, see the Configuration Guide for *process and data-exchange framework for utilities*.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Configuration → Configure Process Step Status*.

3.2.2.9 Scenario ID Definition

In this configuration, you define scenario IDs for the intercompany data exchange (IDEX) processes. The scenario IDs can be used in the business processes to identify certain process variants such as New Connection or Change of Supplier Gain, both as variants of a registration process.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Configuration → Define Process Scenarios*.

The solution provides default scenario IDs to be used within the IDEX processes. The following table shows an overview of the scenario IDs delivered as part of IDEX UK:

Scenario ID	Description
AAW	Asset Work: Adversarial Asset Work
AW_EMERGENCY_JOB	Asset Work: Emergency Job
BULKCOA	Bulk CoA
COA	CoA
COS	Change of Supplier
COS_LOSS_NOTIF	Cos Loss Notification
DLINE_NOSI	CoS Gain: Deadline for NOSI
METEX	Asset Work: Meter Exchange
METIN	Asset Work: Meter Installation
METRM	Asset Work: Meter Removal
NEWCONN	New Connection

The definition and configuration of process step status are provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.10 Process Monitoring Configuration

In this configuration, you maintain the process document UI component attributes.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Monitoring → Configure Process Document UI Components*.

The solution provides a default process document UI configuration in order to display all the UK specific data items in the *Process Document Monitor*.

The configuration of period types is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.11 Inbound/Outbound Message Handling Configuration

The system receives or sends the IDEX solution inbound or outbound market messages as IDoc and the system has to map the data between the IDoc and the process step data. You can use this configuration group to map the IDoc data to corresponding process step data and vice versa.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → In-/Outbound Message Handling → Define Message Parser*.

3.2.2.11.1 Assign Parser Class for Inbound Message Processing

In this configuration, you assign `parser class` for each message type and IDoc basic type combination. This parser class maps the data within the inbound IDoc to the generic process data structure.

The generic parser class that is used for the solution is */IDXPF/CL_PARSER_IDOC_MAPPING*. This parser class uses the mapping framework configuration for data mapping.

The solution provides a default parser class configuration to map the UK industry-specific IDoc format to the process data structure.

The configuration of the parser class is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.11.2 Assign Parser Class for Outbound Message Processing

In this configuration, you assign `outbound parser class` to the data exchange process. The data exchange process represents a particular outbound step within an intercompany data exchange process.

The generic parser class that is used for the solution is */IDXPF/CL_PARSER_IDOC_MAPPING*. This parser class uses the mapping framework configuration for data mapping.

The solution provides a default parser class configuration to map the process data structure to the UK industry-specific IDoc format.

The configuration of the parser class is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.11.3 Define Message Mapping

In this configuration, you define the mapping logic for transforming the generic process data structure of the solution to the message and vice versa. For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPR0**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → In-/Outbound Message Handling → Define Message Mapping*.

The solution provides a default message mapping to transform the process data structure to the UK industry-specific IDoc structure and vice versa.

The configuration of the message mapping is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.12 Deadline Monitoring Configuration

The process configuration has specific process step types for deadline monitoring. For all the process steps for which the deadline is set and active, there is a corresponding deadline timestamp. The supplier may have to monitor all the active deadline process steps in various processes for which the deadline timestamp is already overdue.

To facilitate this overdue deadline monitoring, the IDEX solution has provided the ABAP report */IDXPF/RP_API_TRIGG_PROC_MASS* that can be used to start the waiting processes. The supplier is to schedule this report to run regularly by the IDEX Implementation Programme (IIP).

3.2.2.13 Exception Management Configuration

Within the IDEX solution, there are many situations that may lead to business exceptions. These exceptions have to be partly resolved manually before the system can continue with the IDEX process.

3.2.2.13.1 Configure Exception Codes (BPEM)

The IDEX solution creates exceptions by calling the BAdI */IDXPF/BADI_EXCEPTION*, the method *CREATE_EXCEPTION* and the default implementation */IDXPF/CL_DEF_BADI_EXCEPTION*. The default implementation of this method creates BPEM exceptions.

For further details on the BAdI, see the IMG activity documentation under the Customizing (transaction code **SPR0**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → System Preparation → Create Enhancement → BAdI: Exception Framework*.

In order to create an exception, an *EXCEPTION_CODE* is required as the basic parameter to uniquely identify the exception situation along with the process reference, process step reference, exception caller (either non-SAP flow management software or SAP IS-U), and external process reference.

The exception code configuration is used to maintain:

- Exception Code ID
- BPEM Case Category
- Switch Activity to be logged in the process document
- Additional attribute values to be passed to the exception during runtime

The solution provides a sample BPEM case category via the BC set */IDXUK/BC_EMMA_OBJECT* (refer to the chapter 3.2.2.1).

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Exception Management → Define Exception Codes*.

For further details on how the BPEM case category is configured and used, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *Financial Accounting (New) → Contract Accounts Receivable and Payable → Basic Functions → Enhanced Message Management → Specifications for Generating Clarification Cases → Maintain Clarification Case Categories*.

3.2.2.14 Meter Reading Configuration

3.2.2.14.1 Define Meter Reading Types

In this configuration you define external meter reading types used in the intercompany data exchange processes.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → Process Management → Meter Reading → Define Meter Reading Types*.

The following external reading types are delivered as part of the default configuration:

External Reading Type	Description
A	Actual
B	Backup
C	Customer own read
D	Deemed

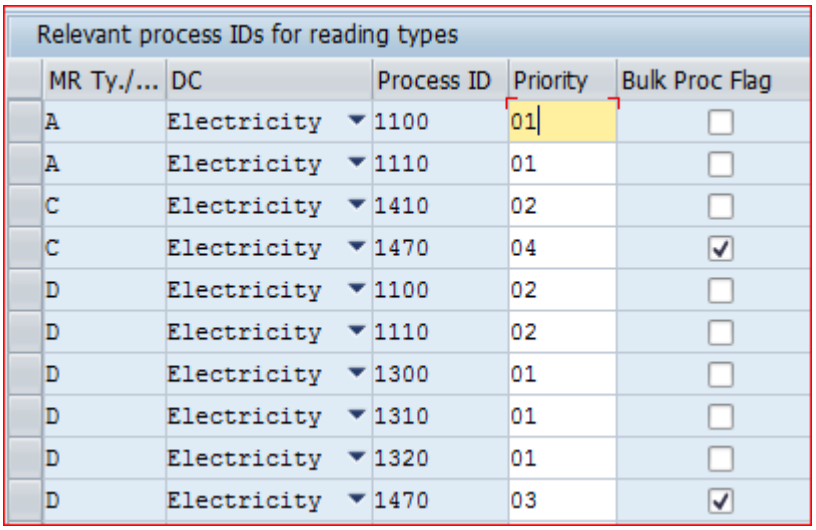
External Reading Type	Description
E	Estimated Read
F	Final
I	Initial
M	MAR
O	Old Supplier estimate (NOSI)
P	Collected Via PPMIP
Q	Reading Modified by DC
R	Routine
S	Special
T	Proving Test Reading
U	Unacceptable
W	Withdrawn
Y	Agreed
Z	Actual Change of Tenancy Read

The definition of meter reading types is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.2.14.2 Assign Process ID to Meter Reading Types

In this configuration, you assign meter reading types to relevant process IDs. In case when the same meter reading types can be used for multiple processes, you can also define the priority.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Intercompany Data exchange for UK Electricity Suppliers → Meter Reading → Assign Process IDs to Meter Reading Types*.



Relevant process IDs for reading types

MR Ty./...	DC	Process ID	Priority	Bulk Proc Flag
A	Electricity	1100	01	☐
A	Electricity	1110	01	☐
C	Electricity	1410	02	☐
C	Electricity	1470	04	☑
D	Electricity	1100	02	☐
D	Electricity	1110	02	☐
D	Electricity	1300	01	☐
D	Electricity	1310	01	☐
D	Electricity	1320	01	☐
D	Electricity	1470	03	☑

Figure 3: Customizing table for Assign Process IDs to Meter Reading Types

The assignment of meter reading types to process IDs is provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to the chapter 3.2.2.1).

3.2.3 Standard SAP IS-U Configuration

The following standard SAP IS-U (IDE) configuration is to be done as baseline for the configuration of the associated utility market communication processes.

3.2.3.1 DATEX Basic Process Configuration

The definition of DATEX basic processes is provided via the BC set */IDXUK/BC_IDXUK_CRSCLNT_OBJ* (refer to the chapter 3.2.2.1).

For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Tools → System Modifications → User-Defined Enhancements for IDE → Define Data Exchange Basic Processes*.

3.2.3.2 Service Provider Determination Setting

In this configuration, you define the service provider determination.

For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Tools → System Modifications → User-Defined Enhancements for IDE → Supply Scenarios → Define Determination Method for Service Provider*.

3.2.3.3 Process Type Configuration

The process types are referenced in the process configuration. For more information, see the Configuration Guide for *process and data-exchange framework for utilities*.

The definition of process types is provided via the BC set */IDXUK/BC_IDXUK_CRSCLNT_OBJ* (refer to the chapter 3.2.2.1).

For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Tools → System Modifications → User-Defined Enhancements for IDE → Change of Supplier → Define Switch Types*.

3.2.3.4 Process View Configuration

The process views are referenced in the process configuration. For more information, see the Configuration Guide for *process and data-exchange framework for utilities*.

The definition of process views is provided via the BC set */IDXUK/BC_IDXUK_CRSCLNT_OBJ* (refer to the chapter 3.2.2.1).

For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Tools → System Modifications → User-Defined Enhancements for IDE → Change of Supplier → Define Switch Views*.

3.2.3.5 Process Activity Configuration

The process activities are referenced in:

- Process step configuration
- Exception configuration

For more information, see the Configuration Guide for *process and data-exchange framework for utilities*.

The definition of process activities is provided via the BC set */IDXUK/BC_IDXUK_CRSCLNT_OBJ* (refer to the chapter 3.2.2.1).

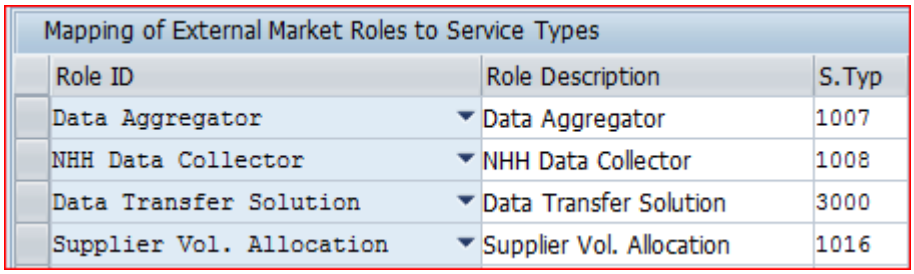
For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Tools → System Modifications → User-Defined Enhancements for IDE → Change of Supplier → Define Activities for Change of Supplier*.

3.2.3.6 Intercompany Data Exchange Configuration

3.2.3.6.1 Map External Market Roles to Service Types

In this configuration, you map the external roles of the external service provider IDs to the internal service types. The mapping allows you to determine the corresponding internal service provider in the system based on the external role received within the market message.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Intercompany Data exchange for UK Electricity Suppliers → In-/Outbound Message Handling → Map External Market Roles to Service Types.*



Mapping of External Market Roles to Service Types

Role ID	Role Description	S.Typ
Data Aggregator	Data Aggregator	1007
NHH Data Collector	NHH Data Collector	1008
Data Transfer Solution	Data Transfer Solution	3000
Supplier Vol. Allocation	Supplier Vol. Allocation	1016

Figure 4: Customizing table for Map External Market Roles to Service Types

3.2.3.6.2 Define Code List for External ID

The external IDs are used to uniquely identify objects, such as a point of delivery, during intercompany communication. An external ID belongs to a certain code list, for example, European Article Number (EAN) code list.

3.2.3.6.3 Define External ID Category

In this configuration, you define external ID category that is referenced in the service provider definition.

For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Service Providers → Define Category for External ID of Service Provider*.

3.2.3.6.4 Define Transformation Between External and Internal Codes

In this configuration, you define mappings between the external (market) data values and the internal (SAP IS-U) data values. For example, a list of read type values in the market includes the values A, C, D, E, F, while the internal values for these are 01, 02, 03, 04, 05. This mapping between the external and internal data values is done based on the transformation ID.

For further details on this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → In-/Outbound Message Handling → Define Transformation Between Internal and External Codes*.

3.2.3.6.5 Define Service Types

In this configuration, you define a service type for each market role that is involved in an IDEX UK process. A service type is allocated to a service category which specifies the service delivered by a utility company, for example, distribution or supply.

The market roles available are as follows:

- Supplier
- Distributor
- Meter Operator
- MPAS
- Data Collector
- Data Aggregator

3.2.3.6.6 Define Supply Scenarios

A supply scenario describes the past, current, or future supply situation for a point of delivery. The supply scenario relates to the description of the market participants and their roles (supplier, distributor) as well as to the master data in the SAP IS-U system (service type etc.). In this way, the supply scenario describes who is participating in the supply process, and who is providing which services.

For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Supply Scenarios*.

3.2.3.6.7 Configure Data Exchange Processes

The definition and configuration of data exchange processes are provided via the BC set */IDXUK/BC_IDXUK_IMG_COMPLETE* (refer to chapter 3.2.2)

For more information about this configuration, see the IMG activity documentation under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Data Exchange Processes*.

3.2.3.7 ALE Configuration

3.2.3.7.1 Configure General ALE Customizing

The definition and configuration of the following customizing settings are provided via the BC sets */IDXUK/BC_IDXUK_IMG_COMPLETE* and */IDXUK/BC_IDXUK_CRSCLNT_OBJ* (refer to the chapter 3.2.2.1).

- Inbound Process Codes (WE42)
- Assignment of Event Function Module to IDoc (WE57)
- Assignment of Event Function Module to IDoc (WE57)
- Assignment of Message Type to IDoc type (WE82)

3.2.3.7.2 Configure Partner Profiles (WE20)

The solution receives or sends market messages during an intercompany data exchange process as IDoc. The partner profile contains parameters that define the receiving or sending of data with a partner via the IDoc interface. For each inbound or outbound IDoc to be used during an IDEX process a partner profile is to be created by executing the transaction code **WE20**.

For more information about IDoc and partner profiles, see the following SAP Library documents in SAP Help Portal at http://help.sap.com:

- Creating an Outbound Partner Profile
- IDoc Interface/Electronic Data Interchange

The following table details IDoc message types and the corresponding basic types to be configured as partner profiles for IDoc outbound communication:

Message Type	Basic Type
/IDXUK/E_COSG_CUST_OBJ	/IDXUK/E_COSG_CUST_OBJ
/IDXUK/E_COSG_REG	/IDXUK/E_COSG_REG
/IDXUK/E_COSL_OBJ	/IDXUK/E_COSL_OBJ
/IDXUK/E_COSL_OBJ_ACC	/IDXUK/E_COSL_OBJ
/IDXUK/E_COSL_OBJ_CRO	/IDXUK/E_COSL_OBJ
/IDXUK/E_COSL_OBJ_REM	/IDXUK/E_COSL_OBJ
/IDXUK/E_CHNG_CUST_DET	/IDXUK/E_CUST_DET
/IDXUK/E_NOTF_CUST_DET	/IDXUK/E_CUST_DET
/IDXUK/E_SPCL_NEED_UPD	/IDXUK/E_CUST_DET

Message Type	Basic Type
/IDXUK/E_COS_MISSDISP	/IDXUK/E_G_COS_MISSDISP
/IDXUK/E_ET	/IDXUK/E_G_ET
/IDXUK/E_MR	/IDXUK/E_MR
/IDXUK/E_MROCOS_MR	/IDXUK/E_MR
/IDXUK/E_MROCOS_COR	/IDXUK/E_MROCOS_COR
/IDXUK/E_NOSI	/IDXUK/E_NOSI
/IDXUK/E_NOTF_AGENT_APNT	/IDXUK/E_NOTF_AGENT_APNT
/IDXUK/E_NOTF_AGENT_UPD	/IDXUK/E_NOTF_AGENT_UPD
/IDXUK/E_NOTIF_EAC	/IDXUK/E_NOTIF_EAC
/IDXUK/E_REGSTRTN_DET_UPD	/IDXUK/E_REGSTRTN_DET_UPD
/IDXUK/E_REQ_AGENT_DEAPNT	/IDXUK/E_REQ_AGENT_DEAPNT
/IDXUK/E_REQ_COE	/IDXUK/E_REQ_COE
/IDXUK/E_REQ_MR_MROCOS	/IDXUK/E_REQ_MR_MROCOS
/IDXUK/E_REQ_MTR_ACTION	/IDXUK/E_REQ_MTR_ACTION
/IDXUK/E_REQ_MTRS_DETAILS	/IDXUK/E_REQ_MTRS_DETAILS
/IDXUK/E_REQUEST_METEX_CM	/IDXUK/E_REQUEST_METEX
/IDXUK/E_REQUEST_METEX_KM	/IDXUK/E_REQUEST_METEX
/IDXUK/E_SETLMNT_DET_UPD	/IDXUK/E_SETLMNT_DET_UPD
/IDXUK/E_COOPERATIVE_OBJ	/IDXUK/EG_COOPERATIVE_OBJ
/IDXUK/E_COOPERATIVE_OBJ_REJ	/IDXUK/EG_COOPERATIVE_OBJ
/IDXUK/E_COSG_COPOBJ	/IDXUK/EG_COOPERATIVE_OBJ
/IDXUK/MSG_STATUS	/IDXUK/MSG_STATUS

The following table details IDoc message types and the corresponding process codes to be configured as partner profiles for IDoc inbound communication:

Message Type	Process Code
/IDXUK/MSG_STATUS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_CUST_OBJ	/IDXUK/E_COSG_CUST_OBJ
/IDXUK/E_COSG_REG	/IDXUK/E_COSG_REG
/IDXUK/E_COSL_OBJ	/IDXUK/E_COSL_OBJ
/IDXUK/E_ACC_AGENT_APNT	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_ACC_MP_SCHD	/IDXPF/COMEV_PROCESS_IN

Message Type	Process Code
/IDXUK/E_AW_RESPONSE_ENERG	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_AW_RESPONSE_FAILURE	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_AW_RESPONSE_REJECTION	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_CHNG_CUST_DET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_CONF_KM_INSTALL	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_CONF_PROV_TST	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_CONF_SM_INSTALL	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COOPERATIVE_OBJ	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_CONF	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_COPOBJ	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_CUST_OBJ	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_HH_RETRV_METH	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_OBJECTION	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_OBJ_REMOVED	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_OBJ_UPHELD	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_OLD_SUP_REG	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSG_REJ	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSL_OBJ	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSL_OBJ_ACC	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSL_OBJ_CRO	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSL_OBJ_REJ	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSL_OBJ_RMR	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSL_UPHLD	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COSL_WITHDR	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_COS_MISSDISP	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_CUST_DET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_DAILY_PROFILE	/IDXPF/COMEV_PROCESS_REPORT_IN
/IDXUK/E_DISC_REJ	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_DISTR_DISC_INFO	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_DU_REC_SETL_DET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_ET	/IDXPF/COMEV_PROCESS_IN

Message Type	Process Code
/IDXUK/E_G_COS_MISSDISP	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_G_ET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_HH_MTR_TECH_DETAILS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_HH_MT_ADV	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_INSTL_CMPL_NOTF	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_INVEST_REQUEST	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_KM_MR_SETTINGS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MAPN_DISCONN_NOTIF	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MDD	/IDXPF/COMEV_PROCESS_REPORT_IN
/IDXUK/E_MPAN_LIST	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MPAS_REFRESH	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MP_ADDDET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MP_CHANGES	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MR	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MROCOS_COR	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MROCOS_MR	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MS_EAC_AA_HIS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MTD	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_MTRS_EAC_AA_DATA	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOSI	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTF_AGENT_APNT	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTF_AGENT_UPD	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTF_CUST_DET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTF_MR_FAIL	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTIF_CHANGES	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTIF_EAC	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTIF_IRREGULARITY	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTIF_MAP	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTIF_MAP_CHNG	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_NOTI_CUST_DET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RECERT_JOB_BULK	/IDXPF/COMEV_PROCESS_IN

Message Type	Process Code
/IDXUK/E_REGSTRTN_DET_RESP	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REJ_AGENT_APNT	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQUEST_METEX_CM	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQUEST_METEX_KM	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_AGENT_DEAPNT	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_COE	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_COE_INVST	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_COE_PPM	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_CUST_MP_DETAILS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_INSCHKMTR	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_MR_MROCOS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_MTRS_DETAILS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_REQ_MTR_ACTION	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RES_COE_PPM	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RGSTRTN_DET	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RGSTRTN_DET1	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RGSTRTN_DET_FUTURE	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RGSTRTN_DET_PENDING	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RPS_INVESTRESULTS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_RPS_STATISTIC_RP	/IDXPF/COMEV_PROCESS_REPORT_IN
/IDXUK/E_SETLMNT_DET_RESP	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_SETLMNT_DET_UPD	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_SM_SETTINGS	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_SPCL_NEED_UPD	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_WARRANT_MAINTOUT	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_WARRANT_NEW	/IDXPF/COMEV_PROCESS_IN
/IDXUK/E_WARRANT_STOP	/IDXPF/COMEV_PROCESS_IN

3.2.4 Master Data Configuration

3.2.4.1 Service Provider Definition

In this configuration, you first create service providers and DATEX processes, and then assign each of the service providers to corresponding DATEX processes.

A service provider represents a utility company that offers the services such as energy distribution and energy supply. For each utility company involved in any of the IDEX UK processes, a service provider has to be defined in SAP IS-U.

For more information, see the SAP Library for *SAP for Utilities* in SAP Help Portal at http://help.sap.com/utilities.

3.2.4.2 Additional Master Data Object Configuration

In order to run the end-to-end IDEX UK processes, the configuration of additional master data objects, such as Point of Delivery (PoD) and business partner, may be required..

For more information, see the following:

- SAP Customizing Implementation Guide (transaction code **SPRO**) → *SAP Utilities*
- SAP Library for *SAP for Utilities* in SAP Help Portal at http://help.sap.com/utilities.

3.3 Business Scenario: Change of Supplier (CoS) Gain

The business scenario CoS Gain integrates interactions and activities to be carried out in order to register an electricity supplier for a particular Point of Delivery (PoD) with the distributor. Utility companies acting as an energy supplier can use this business scenario to create and send registration requests to other market participants and handle the corresponding response messages.

3.3.1 List of Processes and Flows involved

The table below lists the business processes that are in scope of the CoS Gain business scenario:

Process	Description	Parent or Child
1100	Registration Gain (D0055 Out)	Parent
1201	Collector Appointment (D0155 Out)	Child
1202	Aggregator Appointment (D0153 Out)	Child
1203	Operator De-appointment (D0151 Out)	Child
1204	Collector De-appointment (D0151 Out)	Child
1205	Aggregator De-appointment (D0151 Out)	Child
1210	Notice of Change to Other Parties (D0148 Out)	Child
1208	Metering History Request (D0170 Out)	Child
1250	Send Updated Registration Details (D0205 Out)	Child
1252	Send Customer Special Needs (D0225 Out)	Child
1253	Send Settlement Data (D0052 Out)	Child
1254	Send Customer Addresses (D0302 Out)	Child
1270	Update Agents with MC/EAC/PC (D0289 Out)	Child

The table below lists the data flows defined in the Data Transfer Catalogue (DTC) that are supported by the processes in the CoS Gain business scenario:

Data Flow ID	Description	Inbound or Outbound
D0057	Rejection of Registration	Inbound
D0217	Confirmation of the Registration of a Metering Point	Inbound
D0260	Notification from MPAS of Old Supplier Registration Details	Inbound
D0067	Notification of an Objection to Change of Supplier Sent to the New Supplier	Inbound
D0305	Notice of Customer Requested Objection	Inbound

Data Flow ID	Description	Inbound or Outbound
D0091	Notification of Removal of a Registration Objection	Inbound
D0093	Advice to a New Supplier of a Change of Supply Registration Deletion	Inbound
D0089	Notification from MPAS of Changed Metering Point Details	Inbound
D0259	Notification to New Supplier of Future Changes	Inbound
D0213	Advice from MPAS of Changed Metering Point Details	Inbound
D0311	Notification of Old Supplier Information	Inbound
D0149	Notification of Mapping Details	Inbound
D0150	Non Half-hourly Meter Technical Details	Inbound
D0268	Half Hourly Meter Technical Details	Inbound
D0004	Notification of Failure to Obtain Reading	Inbound
D0010	Meter Readings	Inbound
D0086	Notification of Change of Supplier Readings	Inbound
D0055	Registration of Supplier to Specified Metering Point	Outbound
D0071	Customer Own Reading or Supplier Estimated Reading on Change of Supplier	Outbound
D0072	Instruction to Obtain Change of Supplier Reading	Outbound
AFMS/PI	Status Update	Outbound
AFMS/PI	CO-OP objection	Outbound
D0151	Agent De-appointment	Outbound
D0052	Affirmation of Metering System Settlement Details	Outbound
D0302	Notification of Customer Details	Outbound
D0225	Customer Special Needs	Outbound
D0205	Update Registration Details	Outbound
D0170	Request for Metering System Related Details	Outbound
D0289	Notification of MC/EAC/PC	Outbound
D0153	Notification of Data Aggregator Appointment and Terms	Outbound
D0155	Notification of Meter Operator or Data Collector Appointment and Terms	Outbound
D0011	Agreement of Contractual Terms	Inbound
D0261	Rejection of Agent Appointment	Inbound
D0012	Confirmation of the Inclusion of the Metering Point in the Reading Schedules	Inbound

Data Flow ID	Description	Inbound or Outbound
D0149	Notification of Mapping Details	Inbound
D0150	Non Half-hourly Meter Technical Details	Inbound
D0268	Half Hourly Meter Technical Details	Inbound
D0148	Notification of Change to Other Parties	Outbound
D0051	Affirmation of Half Hour Data Retrieval Method and Associated Details	Inbound

3.4 Business Scenario: Agent Appointment

The agent appointment business scenario covers the business processes to appoint or de-appoint supplier agents to a metering system. Suppliers use this business scenario when Change of Supplier (CoS), change of technology (meter) process or other business processes are taking place to notify a new or changed appointment.

3.4.1 List of Processes and Flows involved

The table below lists the business processes that are in scope of the Agent Appointment business scenario:

Process	Description	Parent or Child
1200	Meter Operator Appointment (D0155 Out)	Parent
1201	Data Collector Appointment (D0155 Out)	Parent
1202	Aggregator Appointment (D0153 Out)	Parent
1203	Meter Operator De-appointment (D0151 Out)	Parent/Child
1204	Data Collector De-appointment (D0151 Out)	Parent/Child
1205	Data Aggregator De-appointment (D0151 Out)	Parent/Child
1210	Notice of Change to Other Parties (D0148 Out)	Child
1208	Metering History Request (D0170 Out)	Child
1250	Send Updated Registration Details (D0205 Out)	Child
1252	Send Customer Special Needs (D0225 Out)	Child
1253	Send Settlement Data (D0052 Out)	Child
1254	Send Customer Addresses (D0302 Out)	Child
1270	Update Agents with MC/EAC/PC (D0289 Out)	Child

The table below lists the data flows defined in the Data Transfer Catalogue (DTC) that are supported by the processes in the Agent Appointment business scenario:

Data Flow ID	Description	Inbound or Outbound
D0153	Notification of Data Aggregator Appointment and Terms	Outbound
D0155	Notification of Meter Operator or Data Collector Appointment and Terms	Outbound
D0011	Agreement of Contractual Terms	Inbound
D0261	Rejection of Agent Appointment	Inbound
D0012	Confirmation of the Inclusion of the Metering Point in the Reading Schedules	Inbound

Data Flow ID	Description	Inbound or Outbound
D0149	Notification of Mapping Details	Inbound
D0150	Non Half-hourly Meter Technical Details	Inbound
D0268	Half Hourly Meter Technical Details	Inbound
D0148	Notification of Change to Other Parties	Outbound
D0051	Affirmation of Half Hour Data Retrieval Method and Associated Details	Inbound
D0302	Notification of Customer Details	Outbound
D0225	Customer Special Needs	Outbound
D0205	Update Registration Details	Outbound
D0052	Affirmation of Metering System Settlement Details	Outbound
D0170	Request for Metering System Related Details	Outbound
D0289	Notification of MC/EAC/PC	Outbound
AFMS/PI Status Update	Status update to AFMS/PI	Outbound

3.5 Business Scenario: Asset Works

The asset works business scenario integrates interactions and processes to request for installation or change to a metering system functionality. Utility companies acting as an energy supplier can use this business scenario to create and send a request for removal, replacement or installation of a meter. The business scenario also enables suppliers to handle corresponding response messages and data update flows to be triggered to notify all relevant parties of the changed metering system.

3.5.1 List of Processes and Flows involved

The table below lists the business processes that are in scope of the Asset Works business scenario:

Process	Description	Parent or Child
1300	Asset Installation Request (D0142 Out)	Parent
1320	Asset Removal Request (D0142 Out)	Parent
1310	Asset Exchange Request (D0142 Out)	Parent
1311	Receive Meter Asset Provider detail (D0304 In)	Parent
1330	Req Energ Status Change (D0134 Out)	Parent
1250	Send Updated Registration Details (D0205 Out)	Child
1253	Send Settlement Data (D0052 Out)	Child

The table below lists the data flows defined in the Data Transfer Catalogue (DTC) that are supported by the processes in this business scenario:

Data Flow ID	Description	Inbound or Outbound
D0142	Request for Installation or Change to a Metering System Functionality or the Removal of All Meters	Outbound
D0134	Request to Change Energisation Status	Outbound
D0002	Fault Resolution Report or Request for Decision on Further Action	Inbound
D0221	Notification of Failure to Install or Energise Metering System	Inbound
D0139	Confirmation or Rejection of Energisation Status Change	Inbound
D0149	Notification of Mapping Details	Inbound
D0150	Non Half-hourly Meter Technical Details	Inbound
D0268	Half Hourly Meter Technical Details	Inbound
D0010	Meter Readings	Inbound

Data Flow ID	Description	Inbound or Outbound
D0214	Confirmation of Proving Tests	Inbound
D0205	Update Registration Details	Outbound
D0052	Affirmation of Metering System Settlement Details	Outbound
D0203	Rejection of Changes to Metering Point Details	Inbound
D0310	Notification of Failure to load or receive Metering System Settlement Details	Inbound
D0304	Notification of Meter Asset Provider	Inbound

3.6 Business Scenario: Data Updates

The data updates business scenario covers processes to update supplier agents such as MPAS and meter operator with the latest metering point or customer data. A data update process can be triggered following a Change of Supplier (CoS) or change of agent process, for example. Suppliers can use the business scenario to update market participants with settlement details (D0052 out), registration details (D0205 out) or customer address data (D0302 out) among other processes. This business scenario also enables suppliers to handle response messages where exist.

3.6.1 List of Processes and Flows involved

The table below lists the business processes that are in scope of the Data Updates business scenario:

Process	Description	Parent or Child
1208	Metering History Request (D0170 Out)	Child
1250	Send Updated Registration Details (D0205 Out)	Child
1252	Send Customer Special Needs (D0225 Out)	Child
1253	Send Settlement Data (D0052 Out)	Child
1254	Send Customer Addresses (D0302 Out)	Child
1270	Update Agents with MC/EAC/PC (D0289 Out)	Child
1207	Metering History Request (D0170 In)	Child
1251	Receive Metering System details (D0052 In)	Child

The table below lists the data flows defined in the Data Transfer Catalogue (DTC) that are supported by the processes in this business scenario:

Data Flow ID	Description	Inbound or Outbound
D0289	Notification of MC/EAC/PC	Outbound
D0302	Notification of Customer Details	Outbound
D0052	Affirmation of Metering System Settlement Details	Inbound/ Outbound
D0310	Notification of Failure to load or receive Metering System Settlement Details	Inbound
D0225	Customer Special Needs	Outbound
D0205	Update Registration Details	Outbound
D0203	Rejection of Changes to Metering Point Details	Inbound
D0170	Request for Metering System Related Details	Inbound/ Outbound

Data Flow ID	Description	Inbound or Outbound
D0311	Notification of Old Supplier Information	Inbound
D0289	Notification of MC/EAC/PC	Outbound

3.7 Business Scenario: Change of Supplier (CoS) Loss

The business scenario CoS Loss integrates interactions and activities to be carried out in order to terminate a supply registration from a supplier loss point of view. Utility companies acting as an energy supplier are enabled to receive a withdrawal notification from MPAS and to trigger relevant follow up processes after the inbound message validation. The CoS Loss scenario provides the possibility to trigger an Erroneous Transfer or Objection Process in case the supplier has objections against the withdrawal notification.

3.7.1 List of Processes and Flows involved

The table below lists the business processes that are in scope of the CoS Loss business scenario:

Data Flow ID	Description	Inbound or Outbound
D0058	Notification of Termination of Supply Registration	Inbound
D0066	Rejection of a Registration Objection	Inbound
D0065	Confirmation of Receipt of a Registration Objection	Inbound
D0092	Advice to an Old Supplier of a Change of Supply Registration Deletion	Inbound
D0090	Confirmation of the Removal of a Registration Objection	Inbound
D0069	Rejection of Registration Objection Removal	Inbound
D0089	Notification from MPAS of Changed Metering Point Details	Inbound
D0086	Notification of Change of Supplier Readings	Inbound
D0010	Meter Readings	Outbound
D0064	Notification of an Objection to Change of Supplier Made By the Old Supplier	Outbound
D0305	Notice of Customer Requested Objection	Outbound
D0068	Removal of Registration Objection	Outbound
D0311	Notification of Old Supplier Information	Outbound
D0155	Notification of Meter Operator or Data Collector Appointment and Terms	Outbound
D0261	Rejection of Agent Appointment	Inbound
D0011	Agreement of Contractual Terms	Inbound
D0149	Notification of Mapping Details	Inbound
D0150	Non Half-hourly Meter Technical Details	Inbound
D0268	Half Hourly Meter Technical Details	Inbound
D0170	Request for Metering System Related Details	Outbound

Data Flow ID	Description	Inbound or Outbound
D0302	Notification of Customer Details	Outbound
D0205	Update Registration Details	Outbound
D0225	Customer Special Needs	Outbound
D0052	Affirmation of Metering System Settlement Details	Outbound
D0203	Rejection of Changes to Metering Point Details	Inbound
D0310	Notification of Failure to load or receive Metering System Settlement Details	Inbound
D0151	Termination of Appointment or Contract by Supplier	Outbound
D0300	Disputed Readings or Missing Readings on Change of Supplier	Outbound/Inbound
D0005	Instruction on Action	Outbound
D0004	Notification of Failure to Obtain Reading	Inbound

The table below lists the data flows defined in the Data Transfer Catalogue (DTC) that are supported by the processes in this business scenario:

Process	Description	Parent or Child
1110	Registration Loss (D0058 In)	Parent
1200	Meter Operator Appointment (D0155 Out)	Child
1201	Data Collector Appointment (D0155 Out)	Child
1202	Data Aggregator Appointment (D0153 Out)	Child
1203	Meter Operator De-appointment (D0151 Out)	Child
1204	Data Collector De-appointment (D0151 Out)	Child
1205	Data Aggregator De-appointment (D0151 Out)	Child
1120	Missing/Disputed MRoCoS (D0300)	Child
1410	Request for Special Meter Read (D0005 Out)	Child
1110	Registration Loss (D0058 In)	Parent

3.8 Business Scenario: Change of Supplier (CoS) Generic

The business scenario CoS Generic includes business processes to handle Disputed Readings, Missing Readings and Erroneous Transfer during a CoS process. If no valid meter reading has been received during a CoS process, the supplier can use this business scenario to trigger a notification of a missing meter reading or to trigger a disputed reading process in case the meter reading has been disputed between the old and new suppliers. If a CoS registration process has been made in errors, this business scenario enables both the old supplier and the new supplier to trigger an Erroneous Transfer process and to handle the response messages.

3.8.1 List of Processes and Flows involved

The table below lists the business processes that are in scope of the CoS Loss business scenario:

Process	Description	Parent or Child
1120	Missing/Disputed MRoCoS (D0300)	Parent
1150	Erroneous Transfer (D0301)	Parent

The table below lists the data flows defined in the Data Transfer Catalogue (DTC) that are supported by the processes in this business scenario:

Data Flow ID	Description	Inbound or Outbound
D0300	Disputed Readings or Missing Readings on Change of Supplier	Outbound/Inbound
D0301	Erroneous Transfer Communication	Outbound/Inbound
D0086	Notification of Change of Supplier Readings	Outbound/Inbound

3.9 Business Scenario: Meter Reading

The Meter Reading business scenario integrates interactions and activities to receive and handle meter readings sent from the data collector. The business scenario gives suppliers the opportunity to receive, validate and upload meter readings.

The business scenario describes the following processes:

- Request Special / Ad hoc Meter Read (D0005)
- Receive Cyclic Meter Read (D0010)
- Receive Notification of Failure to Obtain Reading (D0004)
- Receive and Upload Consumption Data (D0019)
- Upload Meter Readings (D0086/D0010)

3.9.1 List of Processes and Flows involved

The table below lists the business processes that are in scope of the Meter Reading business scenario:

Process	Description	Parent or Child
1470	Meter Read Upload Exception (D0010/D0004 In)	Parent
1471	Consumption Data Upload Exception (D0019 In)	Parent
1410	Request for Special Meter Read (D0005 Out)	Parent

The table below lists the data flows defined in the Data Transfer Catalogue (DTC) that are supported by the processes in this business scenario:

Data Flow ID	Description	Inbound or Outbound
D0010	Meter Readings	Inbound
D0019	Metering System EAC/AA Data	Inbound
D0004	Notification of Failure to Obtain Reading	Inbound
D0005	Instruction on Action	Outbound

3.10 BAdI Configuration

The solution is provided with BAdI enhancements to enable the customers to enhance the solution where required. For more information about BAdI enhancements and the default implementation, see the IMG activity documentation for individual BAdIs under the Customizing (transaction code **SPRO**) for *SAP Utilities → Intercompany Data Exchange → Process and Data-Exchange Framework for Utilities → System Preparation → Create Enhancements*.

3.10.1 BAdI Definitions

The following table lists the BAdI interfaces that are provided by the *intercompany data exchange for UK electricity suppliers*:

Enhancement Spot	BAdI Definition	Fallback Class	Description
/IDXUK/ES_UTILITY	/IDXUK/BADI_DATA_ACCESS	None	BAdI for accessing IS-U master data

3.10.2 BAdI Methods

The solution is provided with BAdI enhancements to enable the customers to integrate the solution with SAP IS-U and its data model.

The BAdI methods are categorized as follows:

Category	Description
A	Default implementation provided by SAP To be changed/enhanced by customer
B	To be implemented by customer
C	Can be optionally implemented by customer

The following table lists the BAdI interfaces and their methods to be implemented during the integration:

BAdI Definition	Method	Description	Category
/IDXUK/BADI_DATA_ACCESS	CHECK_EXTERNAL_MPXN	Check if given MPXN is managed externally	B
	GET_ACTION_DETAILS	Determine action details	B
	GET_AGENT_DETAILS	Get agent details	B
	GET_CONSUMPTION_DATA	Get consumption	B

BAdI Definition	Method	Description	Category
		details	
	GET_GROUP_MPXN	Get related MPANs/aggregated MPRNs	B
	GET_INSTRUCTION_DATA	Get instruction details	B
	GET_INTUI_FROM_REFERENCE	Get PoD from service reference	B
	GET_DERIVED_POD_TECH_DATA	Get (derived) PoD technical details	B
	GET_POD_TECH_DATA	Get PoD technical details	B
	GET_REFERENCES_FROM_INTUI	Get PoD service references	B
	GET_RPSS_DATA	Get RPS statistical report data	B
	GET_SITE_OCCUPIED_STATUS	Determine if the site is occupied	B
	GET_WARRANT_DETAILS	Determine warrant details	B
	SET_CONSUMPTION_DATA	Update consumption details	B
	SET_INSPECTION_DATE	Update inspection date	B
	SET_POD_TECH_DATA	Update PoD technical details	B
	SET_REFERENCES_WITH_INTUI	Update PoD service references	B
	VALIDATE_UMS_WITH_SSC	Check if the SSC value is valid for unmetered supply	B
	SET_CALORIFIC_VALUE	Update calorific value	B
	SET_EUC_DATA	Update end user category	B
	GET_BP_FROM_INTUI_MOP	Get business partner (customer) from PoD in MOP instance	B
	GET_TRANSACTION_REFERENCE	Get transaction reference	B

BAdI Definition	Method	Description	Category
/IDXPF/BADI_DATA_ACCESS	GET_ADDRESS	Determine address (SAF format)	A
	GET_CUSTOMER_DETAIL	Determine customer detail	A
	GET_METER_DETAILS	Determine meter attributes	A
	GET_METER_READING	Determine actual meter reading	A
	GET_SERVICE_PROVIDER	Get service provider	B
	GET_TARGET_SUPPLY_SCENARIO	Determine target Supply Scenario	B
	MAP_ISU_TO_SAF_ADDRESS	Map IS-U address to SAF format	B
	MAP_SAF_TO_ISU_ADDRESS	Map SAF address to internal IS-U format	B
	SET_ADDRESS	Update address (SAF format)	B
	SET_CUSTOMER_DETAIL	Update customer detail	B
	SET_METER_DETAILS	Update meter attributes	B
	SET_METER_READING	Upload Meter Reading Results	B
	VALIDATE_ADDRESS	Validate BP/Pod Address	A

For more information about BAdI enhancements, see the chapter *BAdI Enhancements* in the Configuration Guide for *process and data-exchange framework for utilities*.

4 Security Information

The *intercompany data exchange for UK electricity suppliers* is based on SAP for Utilities. Therefore, the related guides also apply to the *intercompany data exchange for UK electricity suppliers*.

For more information about specific security-related topics, see the following resources on SAP Service Marketplace/SAP Support Portal or SCN:

Topic	Quick Link on SAP Service Marketplace/SAP Support Portal or SCN
Security	http://service.sap.com/security http://scn.sap.com/community/security
Platforms	http://service.sap.com/platforms
Infrastructure	http://service.sap.com/securityguide → *Infrastructure Security*
Related SAP Notes	http://support.sap.com/notes http://support.sap.com/securitynotes
SAP NetWeaver	http://scn.sap.com/community/netweaver
SAP for Utilities	http://service.sap.com/security → *SAP Security Guides* → *Industry Solutions* → *SAP for Utilities*

For a complete list of available SAP Security Guides, see SAP Service Marketplace at http://service.sap.com/securityguide.

4.1 Data Protection and Privacy

Data protection is associated with numerous legal requirements and privacy concerns. In addition to compliance with general data privacy regulation, it is necessary to consider compliance with industry-specific legislation in different countries. SAP provides specific features and functions to support compliance with regards to relevant legal requirements, including data protection. SAP does not give any advice on whether these features and functions are the best method to support company, industry, regional, or country-specific requirements. Furthermore, this information does not give any advice or recommendation in regards to additional features that would be required in particular IT environments; decisions related to data protection must be made on a case-by-case basis, under consideration of the given system landscape and the applicable legal requirements.

> **Note**
>
> In the majority of cases, compliance with applicable data protection and privacy laws will not be covered by a product feature. SAP software supports data protection compliance by providing security features and specific data protection-relevant functions, such as simplified blocking and deletion of personal data. SAP does not provide legal advice in any form. Definitions and other terms used in this document are not taken from any given legal source.

The *intercompany data exchange for UK electricity suppliers* application is based on *process and data-exchange framework for utilities*. Therefore, the same features for protecting personal data also apply to *intercompany data exchange for UK electricity suppliers*. No additional personal data is managed or stored with *intercompany data exchange for UK electricity suppliers*.

The data protection and privacy information specific to *process and data-exchange framework for utilities* is described in detail in the Administration Guide for *process and data-exchange framework for utilities* that is downloadable from SAP Help Portal at http://help.sap.com. You can access the relevant product page by searching with the product name *Process and Data-Exchange Framework for Utilities*.

4.1.1 Glossary

Term	Definition
Personal data	Any information relating to an identified or identifiable natural person ("data subject"). An identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural, or social identity of that natural person.

5 Operations Information

Designing, implementing, and running your SAP applications at peak performance 24 hours a day is vital for your business success. This chapter contains important information on how to smoothly operate the *intercompany data exchange for UK electricity suppliers*.

The *intercompany data exchange for UK electricity suppliers* is based on SAP for Utilities. Therefore, the general operations information that is covered in the related operations guides also applies to the *intercompany data exchange for UK electricity suppliers*.

For more information about related guides, see the following resources on SAP Service Marketplace/SAP Support Portal:

Resource	Quick Link on SAP Service Marketplace/SAP Support Portal
SAP for Utilities Master Guide	http://service.sap.com/instguides → *Industry solutions* → *Industry Solution Guides* → *SAP for Utilities*
Operations Information in Configuration Guide for process and data-exchange framework for utilities 1.0	http://support.sap.com/swdc → *Installations and Upgrades* → *Alphabetical List of my Products (index "P")* → *PROCESS/XCHG FRAMWORK UTIL* → *PROCESS/XCHG FRAMWORK UTIL 1.0* → *Technical Documentation*

For a complete list of available SAP Operations Guides, see SAP Service Marketplace at http://service.sap.com/instguides.

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