

Digital Capability Assertion Framework

Digital Capability Publisher Criteria

Version 1.0

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All information in this document, except for the background and test assertions, is to be treated as DCAFOne commercial-in-confidence

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1. Background

Digital Business Council Limited’s Interoperability Framework (**Framework**) introduces a set of standards, policies and guideless to improve digital interoperability between Business’ natural systems (such as ERP and accounting systems).

The Digital Capability Publisher (DCP) is a key component for the functioning of an open standards based digitally interoperable ecosystem as defined by the Framework. DCP stores metadata, which is essential in routing of documents received from a sender to the correct recipient. This metadata is a combination of information on the end entity or recipient (its identifier, supported business documents and processes in which it accepts those documents) and the Access Point/gateway (metadata which includes technical configuration information on the receiving endpoint, such as the transport protocol and its digital address).

In order to provide the degree of interoperability as defined in the Framework the DCP must conform to a minimum set of criteria. While commencing with eInvoicing it is intended that the types of transactions implemented will expand over time to include other aspects of the procure to pay life cycle.

This document sets out the criteria as defined by the Digital Capability Assertion Framework (DCAF) – further details on DCAF can be found on <http://DCAFOOnline.com>.

More information on the relevant standards can be found in the following sources:

Digital Interoperability Framework	http://digitalbusinesscouncil.com.au/interoperability-framework/
Digital Capability Publisher Implementation Guide	http://digitalbusinesscouncil.com.au/digital-capability-publisher/
Digital Capability Locator (DCL) Implementation Guide	http://digitalbusinesscouncil.com.au/digital-capability-locator/
e-SENS SMP input specifications	http://wiki.ds.unipi.gr/display/ESENS/PR++SMP
OASIS SMP specifications	http://docs.oasis-open.org/bdxx/bdx-smp/v1.0/
PEPPOL SMP test cases	https://joinup.ec.europa.eu/svn/cipaedelivery/trunk/test/TestCases/e-Delivery-SMP.xls
[HTTP 1.1] specification	http://www.w3.org/Protocols/rfc2616/rfc2616.html
[XML 1.0] specification	http://www.w3.org/TR/xml
[Unicode] specification	http://www.unicode.org/versions/Unicode7.0.0/
[XML-DSIGv1.1]	https://www.w3.org/TR/xmlsig-core1/

Table 1 – Reference Documents

2. Definitions

For the purposes of this Criteria unless otherwise specified:

Available means with respect to a Digital Capability Publisher, being capable of receiving and sending electronic Messages in accordance with the Framework.

Implementation Practice Note means a notification issued by the DCAFOne that outlines operational guidance on methods or practices for implementing the Framework.

Business Day means any day other than a Saturday, Sunday or public holiday in Canberra, Australian Capital Territory.

Business Hours means anytime between 9am and 5pm (local time) on a Business Day which are for the purposes of the execution of this Agreement.

Business Documents means structured documents, as defined by the DCAFOne list of semantic documents used by the business in its day-to-day activities such as invoicing which are for the purposes of checking adherence to this criteria document.

Client means a business, organisation or any other entity, for which the Digital Capability Publisher Service Provider provides its Digital Capability Publisher services. The use of the term client implies there is a business or commercial relationship between the entity and Digital Capability Publisher Service Provider.

Participant means a business, organisation or any other entity, for which the Digital Capability Publisher Provider provides its Digital Capability Publisher services.

DCAFOne means the service which provides assertion publication services to Interoperability Framework Service Providers.

DCAFOne Website means the Website accessible at: <http://DCAFOne.com>

Defect means any characteristic that makes the whole or any part of Digital Capability Publisher Provider Service inoperable or inconsistent with the requirements of this criteria document including any Implementation Practice Note issued by the DCAFOne and the relevant Interoperability Framework Implementation Guide.

Digital Capability Locator is a service for looking up the location of the Digital Capability Publisher for a Participant.

Digital Capability Publisher Service Provider is a provider of a service for Participants to store their details of their capabilities, and includes what scenarios they can process, the data formats they support and the delivery address for their Business Documents.

3. DCAF Criteria

The DCAF criteria outlines the information that service providers will voluntarily and transparently publish in order to attain the appropriate DCAF level credential.

3.1. Service Features

3.1.1. Adherence to the interoperability framework

Adheres to the Interoperability Framework and the DCP Implementation Guide referenced in Table 1.

3.1.2. Availability

Availability details (e.g. hours of operation, percentage of availability) and non-availability details (e.g. outages and notices of outages) are published at a known URL.

3.1.3. Costs and charges

Lookup services to retrieve a Participants capability details are provided free of charge. Other Costs and Services may be advertised at a known URL

3.1.4. Client Data Ownership

All data including the registration and capability data in the Digital Capability Publisher Provider Service is owned by the Client. In particular and without limiting the preceding sentence, the Digital Capability Publisher Provider ensures that the Client has given its acceptance to publish the Client's metadata to both the Digital Capability Publisher Provider and the Digital Capability Locater. If the registration is done by a third party and not the Digital Capability Publisher Provider who has the commercial arrangement with the Client, the Digital Capability Publisher Provider must ensure it is able to provide evidence of any transfer of responsibility.

Written approval is obtained prior to disclosing or publishing the Client's data or information. The Digital Capability Publisher Provider may distribute information about a Client or Participant only to the extent required for operation of the DCP infrastructure.

An audit trail of the authorisation by the Client or Participant to carry out any necessary update is maintained. The authorisation may be obtained by email.

3.1.5. Logging

All registration, editing or deletion of entries in the Digital Capability Publisher is logged and logs are retained for a minimum of 2 years.

3.1.6. Incident resolution

General information on incident resolution, including response times is published at a known URL.

3.1.7. Capability Lookup Response times

General information on capability lookup performance or response time is published at a known URL.

3.1.8. Business Continuity and or Disaster Recovery

General information about business continuity and or disaster recovery is published at a known URL.

3.2. Technical Interoperability Features

The technical interoperability features outline a set of features that enables overall digital interoperability. Adherence to the required features provides the minimum needed to achieve interoperability whilst the optional features provided a greatest degree of benefit.

This document also contains two sets of test assertions to assist with interoperability testing;

- A set of DCP requirements based on the DCP implementation guide. These test assertions are labelled as DCP_TAXX,
- A list of requirements that are potentially untestable. These test assertions are labelled as DCP_TABX.

The test assertions that are potentially untestable (they cannot be easily transformed into useful test cases) are included within this document as they contain valuable information for implementation or configuration.

3.2.1. Required Features

#	Name	Short Description	Test Assertions
1	Discovery Interface	Returns the following responses (over https): <ul style="list-style-type: none"> a) Signed service metadata pertaining to a particular digital capability of a participant. b) Signed list of references to Service Metadata resources that are associated with various digital capabilities of a participant 	DCP_TA01, DCP_TA02 & DCP_TA03
2	Request URL	The request URL must conform to the following <ul style="list-style-type: none"> a) Identifiers are used in the URL MUST be percent encoded b) If multiple identifiers are used each section (separated by slashes) MUST be percent encoded individually c) When processing identifiers in the URL they MUST be treated as case insensitive d) All Identifiers must be associated with a scheme that indicates the specification of the identifier format, i.e. its representation and meaning e) All schemes must be in the form of a URI f) The recognised schemes are 	DCP_TA11 DCP_TA09 DCP_TA05 DCP_TA06 DCP_TA10 DCP_TA12 DCP_TA13

		<ul style="list-style-type: none"> • Participant identifier - urn:oasis:names:tc:ebcore:partyid-type:iso6523:0151 or urn:oasis:names:tc:ebcore:partyid-type:iso6523:0088 or urn:oasis:names:tc:ebcore:partyid-type:iso6523:0060 • Document identifier - urn:resources.digitalbusinesscouncil.com.au:dbc:invoicing:documents:core-invoice:xsd::core-invoice-1##urn:resources.digitalbusinesscouncil.com.au:dbc:e-invoicing:process:einvoicing01:ver1.0 • Process Identifier - urn:resources.digitalbusinesscouncil.com.au:dbc:e-invoicing:ver1.0 	
3	Response Content	<p>The content must conform to the following</p> <ol style="list-style-type: none"> a) Single transport protocol per unique endpoint b) Payload identifier match - Participant identifier in the service metadata resource matches the participant identifier in the request URL and both are case insensitive c) When processing identifiers in the XML format , they MUST be treated as case insensitive d) XML documents with only local names MUST NOT be referenced using Service Metadata Publishing. e) The response does not contain an extension element with essential information for the client to be able to locate the service or to be able to use the metadata. 	DCP_TA04 DCP_TA05 DCP_TA08 DCP_TA14 DCP_TA24 DCP_TA23

4	REST	<ol style="list-style-type: none"> 1. A service implementing the REST binding MUST support [HTTP 1.1] and MUST set the HTTP 'content-type' header and give it the value of 'text/xml'. 2. HTTP GET operations for service metadata or service group MUST return the following status codes <ol style="list-style-type: none"> a) 200 if the resource is retrieved correctly b) 404 if a specific resource could not be found.. c) 500 if the service experiences an 'internal processing error'. 3. XML documents returned by HTTP GET MUST be well-formed according to (XML 1.0) 4. XML documents MUST be UTF-8 encoded (Unicode). 5. The following identifier should be used for referencing the version 1.0 of the SMP REST binding:<i>http://docs.oasis-open.org/bdxx/ns/SMP/2016/04</i> 	DCP_TA16 DCP_TA18 DCP_TA17 DCP_TA19 DCP_TA22 DCP_TA20 DCP_TA21 DCP_TA25
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3.2.1. Optional Features

#	Name	Short Description	Test Assertions
1	Participant and scheme identifiers	The DCP can be interrogated by a participant AND scheme identifier	TBD
2	Participant only identifier	The DCP can be interrogated by a participant AND scheme identifier	TBD
	REST Binding - BDXL	The following identifier should be used for the version 1.0 of the SMP REST binding: <i>http://docs.oasis-open.org/bdxx/ns/SMP/2016/04</i>	DCP_TA25

4. Test Assertions (Testable)

TA Id	DCP_TA01
Source	[OASIS SMP 3.4] If the sender performs a service metadata request, it receives a response containing the URL and other properties of the recipient.
Target	DCP – Service Metadata
Prerequisite	<ul style="list-style-type: none"> ➤ The sender sends a ServiceMetadata request to a DCP ➤ The expected status code in the response is 200 ➤ The URI is constructed such as :/{identifier scheme}::{id}
Predicate	The sender receives a response from the DCP which contains a Service Metadata entity that holds all of the metadata about a Service
Prescription Level	Mandatory
Tag	DCP, Service Metadata
Variable	N/A

TA Id	DCP_TA02
Source	[OASIS SMP 3.4] If the sender performs a service group request, he receives a response containing a ServiceGroup entity, which holds a list of references to the ServiceMetadata resources associated with it.
Target	DCP – Service Group
Prerequisite	<ul style="list-style-type: none"> ➤ The sender sends a ServiceGroup request for a recipient to an DCP ➤ The expected status code in the response is 200 ➤ The URI is constructed such as :/{identifier scheme}::{id}

Predicate	The sender receives a response from the DCP which contains a Service Group entity that holds the Participant Identifier of the recipient and a list of references to Service Metadata resources that are associated with that participant identifier.
Prescription Level	Mandatory
Tag	DCP, Service Group
Variable	N/A

TA Id	DCP_TA03
Source	[OASIS SMP 2.3.3.3] References MUST refer to SignedServiceMetadata records that are signed by the certificate of the DCP. It must not point to SignedServiceMetadata resources published by external DCPs
Target	ServiceMetadataReference
Prerequisite	DCP_TA02
Predicate	All referenced records should be using the signing certificate from the DCP.
Prescription Level	Mandatory
Tag	Service metadata reference, signed service metadata
Variable	N/A

TA Id	DCP_TA04
Source	[OASIS SMP 2.3.4.4] The participant identifier comprises of the identifier and an identifier scheme. This identifier MUST have the same value of the {id} part of the enclosing ServiceMetadata resource
Target	ParticipantIdentifier
Prerequisite	The sender client constructs a URL based on participant identifier and doctype.

Predicate	The {id} part represented in the XML of the ServiceMetadata resource is the same as the {id} part in the corresponding URL.
Prescription Level	Mandatory
Tag	Participant identifier
Variable	N/A

TA Id	DCP_TA05
Source	[OASIS SMP 2.3.4.3] For the list of endpoints under each <Endpoint> element in the ServiceEndpointList, each endpoint MUST have different values of the transportProfile attribute i.e. represent findings to different transports.
Target	Endpoints
Prerequisite	<ul style="list-style-type: none"> ➤ DCP_TA01 ➤ The returned metadata contains a Service Endpoint list with multiple Endpoints
Predicate	The <Endpoint> elements in the Service Endpoint list contain different values for each transport Profile attribute
Prescription Level	Mandatory
Tag	Endpoint, transport profile
Variable	N/A

TA Id	DCP_TA06
Source	[OASIS SMP 2.4.5] Participant identifiers SHOULD consist of a scheme identifier in addition to the participant identifier. Here the scheme identifier indicates the specification of the participant identifier format, i.e. its representation and meaning.

Target	Participant identifiers
Prerequisite	The sender constructs a URL containing a participant identifier and a scheme identifier in order to interrogate the DCP
Predicate	Status code 200 gets returned by the DCP
Prescription Level	Preferred
Tag	Participant identifier, scheme identifier
Variable	N/A

TA Id	DCP_TA07
Source	[OASIS SMP 2.4.5] Participant identifiers SHOULD consist of a scheme identifier in addition to the participant identifier itself. Here the scheme identifier indicates the specification of the participant identifier format i.e. its representation and meaning.
Target	Participant identifiers
Prerequisite	The sender constructs a URL containing a participant identifier without a scheme identifier in order to interrogate the DCP
Predicate	Status code 200 gets returned by the DCP
Prescription Level	Preferred
Tag	Participant identifier, scheme identifier
Variable	N/A

TA Id	DCP_TA08
Source	[OASIS SMP 2.4.5.2] When processing a participant identifier in XML format, it MUST be treated as case insensitive.
Target	Participant identifiers

Prerequisite	The DCP contains a participant identifier in XML format {check: (XML 1.0 specification)}
Predicate	The processing of the participant identifier is treated as case insensitive
Prescription Level	Mandatory
Tag	Participant identifier, XML format
Variable	N/A

TA Id	DCP_TA09
Source	[OASIS SMP 2.4.5.3] In a URL, the string represented by <<{identifier scheme}::{id}>> MUST be percent encoded following and the guidelines given above.
Target	Participant identifier scheme
Prerequisite	The sender constructs a URL containing a string: {identifier scheme}::{id} that is percent encoded (replace ':' separator by '%3a' and '#' by '%23')
Predicate	The DCP returns the requested information
Prescription Level	Mandatory
Tag	Participant identifier scheme, encoding
Variable	N/A

TA Id	DCP_TA10
Source	[OASIS SMP 2.4.5.3] When processing a participant identifier in an URL, it MUST be treated as case insensitive.
Target	Participant identifiers
Prerequisite	The sender constructs a URL containing a participant identifier
Predicate	The processing of the participant identifier is treated as case insensitive
Prescription Level	Mandatory

Tag	Participant identifier
Variable	N/A

TA Id	DCP_TA11
Source	[OASIS SMP 2.4.6] The scheme of the document identifier MUST be in the form of a URI
Target	Document identifiers
Prerequisite	The sender constructs a URI containing a document identifier
Predicate	The scheme of the document identifier is identified by the URI:<<check>>
Prescription Level	Mandatory
Tag	Document identifier scheme, URI
Variable	N/A

TA Id	DCP_TA12
Source	[OASIS SMP 2.4.6] When processing a document identifier in XML format, it MUST be treated as case insensitive
Target	Document identifiers
Prerequisite	The sender constructs a URI containing a document identifier in XML format
Predicate	The server processes the request regardless of the case formatting of the doc id
Prescription Level	Mandatory
Tag	Document identifier, XML format
Variable	N/A

TA Id	DCP_TA13
Source	[OASIS SMP section 3.2] A service implementing the REST binding MUST support [HTTP 1.1] and MUST set the HTTP 'content-type' header and give it the value of 'text/xml'
Target	DCP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST as a binding ➤ The client executes a request using HTTP 1.1
Predicate	The client receives the requested data {check (HTTP 1.1) specification}
Prescription Level	Mandatory
Tag	REST binding HTTP 1.1
Variable	N/A

TA Id	DCP_TA14
Source	[OASIS SMP section 3.2] A service implementing the REST binding MUST support [HTTP 1.1] and MUST set the HTTP 'content-type' header and give it the value of 'text/xml'
Target	DCP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST as a binding ➤ The client makes a request for info available in the DCP
Predicate	The HTTP content-type header is set to 'text/xml' in the requested Metadata
Prescription Level	Mandatory
Tag	REST binding, HTTP header
Variable	N/A

TA Id	DCP_TA15
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Source	[OASIS SMP section 3] HTTP GET operations MUST return the status code 200 if the resource is retrieved correctly
Target	DCP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST as a binding ➤ The ServiceGroup exists on the DCP ➤ The URI is constructed like: //{hostname}/{identifier scheme}::id ➤ The sender requests the ServiceGroup from the DCP and the resource is retrieved correctly
Predicate	<ul style="list-style-type: none"> ➤ HTTP GET returns status code 200 ➤ The returned content holds the Participant Identifier of the recipient, and a list of references to individual ServiceMetadata resources that are associated with that Participant Identifier
Prescription Level	Mandatory
Tag	REST binding, HTTP GET, Service Group, URI
Variable	N/A

TA Id	DCP_TA16
Source	[OASIS SMP section 3] HTTP GET operations MUST return the status code 200 if the resource is retrieved correctly
Target	SMP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST as a binding ➤ The SignedServiceMetadata exists on the DCP ➤ The URI is constructed like: //{hostname}/{identifier scheme}::id ➤ The sender requests metadata from the DCP and the resource is retrieved correctly
Predicate	<ul style="list-style-type: none"> ➤ HTTP GET returns status code 200 ➤ The returned content holds all the metadata about a Service

Prescription Level	Mandatory
Tag	REST binding, HTTP GET, Signed Service Metadata, URI
Variable	N/A

TA Id	DCP_TA17
Source	[OASIS SMP section 3.2] HTTP GET operations MUST return the status code 404 if a specific resource could not be found. This could for example be the result of a request containing a Participant Identifier that does not exist.
Target	DCP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST as a binding ➤ The URI is constructed like: //{hostname}/{identifier scheme}::{id} ➤ The sender requests metadata from the DCP but the resource does not exist or is unknown
Predicate	HTTP GET returns status code 404
Prescription Level	Mandatory
Tag	REST binding, HTTP GET, ServiceGroup
Variable	N/A

TA Id	DCP_TA18
Source	[OASIS SMP section 3.3] XML documents returned by HTTP GET MUST be well-formed according to (XML 1.0) and MUST be UTF-8 encoded (Unicode). They MUST contain a document type declaration starting with '<?xml' which includes the <<encoding>> attribute set to 'UTF-8'
Target	SMP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST as a binding

	<ul style="list-style-type: none"> ➤ The recipient receives a business document returned by HTTP GET containing the requested Metadata in XML format
Predicate	<ul style="list-style-type: none"> ➤ The document type declaration starts with '<?xml' ➤ Version 1.0 of XML is used in the document ➤ The XML is well-formed according to the (XML 1.0) specification
Prescription Level	Mandatory
Tag	REST binding, HTTP GET, XML format
Variable	N/A

TA Id	DCP_TA19
Source	[OASIS SMP section 3.3] XML documents returned by HTTP GET MUST be well formed according to (XML 1.0) and MUST be UTF-8 encoded (Unicode)
Target	SMP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST as a binding ➤ The recipient receives a business document returned by HTTP GET containing the requested metadata in XML format
Predicate	The XML Document is utf-8encoded (case sensitive) (check the Unicode specification)
Prescription Level	Mandatory
Tag	REST binding, HTTP GET, UTF-8 encoding
Variable	N/A

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TA Id	DCP_TA20
Source	[OASIS SMP 2.4.3] When any type of identifiers are used in URLs, each section between slashes MUST be percent encoded individually, i.e section by section.
Target	Identifiers

Prerequisite	The sender constructs a URL containing an identifier of any type
Predicate	Each section between slashes in the URL is percent encoded
Prescription Level	Mandatory
Tag	Identifiers, encoding
Variable	N/A

TA Id	DCP_TA21
Source	[OASIS 2.4.5.2] The scheme type of a participant identifier MUST be in the form of a URI.
Target	Participant identifiers
Prerequisite	The client makes a request for information about an existing participant identifier
Predicate	The scheme of the participant identifier is presented in the form of a URI
Prescription Level	Mandatory
Tag	Participant identifier scheme, URI
Variable	N/A

5. Test Assertions (Potentially Untestable)

TA Id	DCP_TAB1
Source	[OASIS SMP section 3.2] HTTP GET operations MUST return the status code 500 if the service experiences an 'internal processing error'
Target	DCP REST binding
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses REST binding ➤ The sender requests metadata from the DCP but there is an internal processing error

Predicate	HTTP GET returns status code 500
Prescription Level	Mandatory
Tag	REST binding, HTTP GET
Variable	N/A

TA Id	DCP_TAB2
Source	[OASIS SMP 2.3.2] DCP publishing services MUST NOT produce metadata that contains extensions necessary for a client to understand in order to make use of this metadata. The ability to parse and adjust client behavior based on an extension element MUST NOT be a prerequisite for a client to locate a service, or to make a successful request at the referenced service.
Target	Extension points
Prerequisite	<ul style="list-style-type: none"> ➤ The sender requests metadata from the DCP ➤ The metadata contains an extension element
Predicate	The response does not contain an extension element with essential information for the client to be able to locate the service or to be able to use the metadata.
Prescription Level	Mandatory
Tag	Extension element
Variable	N/A

TA Id	DCP_TAB3
Source	[OASIS SMP 2.4.6] XML documents with only local names MUST NOT be referenced using Service Metadata Publishing.
Target	Document identifiers
Prerequisite	The sender constructs a URL containing a document identifier in XML format

Predicate	The metadata returned by the DCP does not consist of local names only
Prescription Level	Mandatory
Tag	Document identifiers, local names, Service Metadata Publishing
Variable	N/A

TA Id	DCP_TAB4
Source	[OASIS SMP section 3.5] For referencing the SMP REST binding, for example from Business Document Metadata Service Location records, the following identifier should be used for the version 1.0 of the SMP REST binding: http://docs.oasis-open.org/bxdr/ns/SMP/2014/07
Target	SMP REST BINDING
Prerequisite	<ul style="list-style-type: none"> ➤ DCP uses version 1.0 of the DCP REST binding ➤ A BDXL record is present
Predicate	The following identifier has been used: http://docs.oasis-open.org/bdxr/ns/SMP/2014/07
Prescription Level	Preferred
Tag	REST binding, BDXL
Variable	N/A

6. Criteria Tables for publishing on DCAFOne

6.1. General criteria

Requirement	Confirmation of Agreement
DCAFOne Terms and conditions of use	
DCAFOne Privacy Policy	

6.2. Required Service Features

Feature	Confirmation of Agreement
Adherence to the interoperability framework	
Costs and charges	
Client Data Ownership	
Logging	

6.3. Required Service Information

Feature	URL for further information
Availability	
Costs and charges	
Security – public key	
Incident resolution	

Capability Lookup Response times	
Business Continuity and or Disaster Recovery	

6.4. Required Technical Interoperability Features

Feature	Confirmation of Agreement
Discovery Interface	
Request URL	
Response Content	
REST	

6.5. Optional Technical Interoperability Features

Feature	Y/N/Unspecified
Participant and scheme identifiers	
Participant only identifier	
Response Content	
REST Binding - BDXL	