



Catalog Service - User Guide

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Catalog Service

Introduction

Purpose of this Guide

The Catalog Service is an independent component that will provide a rich description of the available T24 services and their operations. Third party services, components and tooling as well those developed by Temenos will then be able to interact with this repository to understand which services are available.

Intended Audience

This User Guide is intended for the use of Internal Temenos users and Clients.

Overview

The high-level operations handled by this Catalog Service are:

- The Catalog Service will act as a resource both to support the T24 integration tooling and to client banks' implementation teams tasked with developing interfaces to T24.
- The Catalog Service will contain a list of each operation, categorised by its parent service.

For example; under the CustomerService the operations getPhysicalAddress, getAccountOfficer and so forth will be listed.

Invoking Catalog Service Operations

Catalog Service will be available as T24 component and can be invoked by variety of different interfaces as follows;

- JBC API will be available to use by other T24 components
- C++ API will be available to use by 3rd party systems with C++ supported technologies.
- .NET API will be available to use by 3rd party systems with C++ supported technologies
- Java API will be available to use by 3rd party systems with Java supported technologies.

Catalog Service Methods

getServices	This method will populate 'metaDataXML' class object with the metadata of all registered T24 services.
getServiceByName	This method will populate 'metaDataXML' class object with the metadata of a specific T24 service.
getOperations	This method will populate 'metaDataXML' class object with the metadata of a specific T24 service operations only.
getOperationByName	This method will populate 'metaDataXML' class object with the metadata of a specific T24 service operation only.
getParameters	This method will populate 'metaDataXML' class object with the metadata of the parameters applicable to specific T24 service operation.
getParameterByName	This method will populate 'metaDataXML' class object with the metadata of the given parameter applicable to specific T24 service operation.
getCustomizedTypeByName	This method will populate 'metaDataXML' class object with the metadata of the given customized type applicable to specific T24 service.
checkServiceExists	This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as '0' (does not exist) or '1' (exists) for specific T24 service name provided.




checkOperationExists	This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as 'o' (does not exist) or '1' (exists) for specific operation name for given T24 service name provided.
checkParameterExists	This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as 'o' (does not exist) or '1' (exists) for specific parameter name in given operation name for given T24 service name provided.
checkCustomizedTypeExists	This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as 'o' (does not exist) or '1' (exists) for specific customized type name for given T24 service name provided.
getResource	Get the details about the resources specified, where Name is the input parameter and can have the values as APPLICATION, VERSION OR ENQUIRY
getResources	Gets the details about the resource type, Product and the component mentioned, where the resource type can be APPLICATION, VERSION OR ENQUIRY
getDomainObjects	Returns a list of non-obsolete applications in T24.
getApplicationAsXml	Returns an xml string containing metadata about T24 application. The name of the APPLICATION has to be passed as the input parameter to this method.
getVersionAsXml	Returns an xml string containing metadata about T24 Version. The name of the Version has to be passed as the input parameter to this method
getEnquiryAsXml	Returns an xml string containing metadata about T24 Enquiry. The name of the ENQUIRY has to be passed as the input parameter to this method

Service Repository Methods-Explained


getServices

This method will populate 'metaDataXML' class object with the metadata of all registered T24 services.

Parameter Name	Type	Description	Direction	Format
metaDataXML	MetaDataXML	Hold metadata XML for all available T24 services	OUT	

getServiceByName

This method will populate 'metaDataXML' class object with the metadata of a specific T24 service.


Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
metaDataXML	MetaDataXML	Hold metadata XML for given T24 service	OUT	

getOperations

This method will populate 'metaDataXML' class object with the metadata of a specific T24 service operations only.

Parameter Name	Type	Description	Direction	Format
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serviceName	String	T24 Service Name	IN	e.g. Customer
metaDataXML	MetaDataXML	Hold operations metadata XML for given T24 service	OUT	

This method will internally call 'getServiceByName' and filter 'operations' from it using TAF[C/J] function XMLTOXML by passing the following XSL:

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template match="/">
    <xsl:copy-of select="/service/operations"></xsl:copy-of>
  </xsl:template>
</xsl:stylesheet>
```

getOperationByName

This method will populate 'metaDataXML' class object with the metadata of a specific T24 service operation only.


Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
operationName	String	Service Operation Name	IN	e.g. getLanguage
metaDataXML	MetaDataXML	Hold metadata XML of single operation present under given T24 service	OUT	

This method will internally call 'getOperations' and filter single 'operation' from it using TAF[C/J] function XMLTOXML by passing the following XSL:

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template match="/">
    <xsl:copy-of select="/operations/operation[@name='getLanguage']">
  </xsl:copy-of>
</xsl:template>
</xsl:stylesheet>
```

getParameters

This method will populate 'metaDataXML' class object with the metadata of the parameters applicable to specific T24 service operation.

Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
operationName	String	Service Operation Name	IN	e.g. getLanguage
metaDataXML	MetaDataXML	Hold metadata XML of all the parameters available under given T24 service operation	OUT	




This method will internally call 'getOperationByName' and filter all the 'parameters' from it using TAF[C/J] function XMLTOXML by passing the following XSL:

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
<xsl:template match="/">
<xsl:copy-of select="/operation/parameter">
</xsl:copy-of>
</xsl:template>
</xsl:stylesheet>
```

getParameterByName

This method will populate 'metaDataXML' class object with the metadata of the given parameter applicable to specific T24 service operation.


Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
operationName	String	Service Operation Name	IN	e.g. getLanguage
parameterName	String	Parameter Name	IN	e.g. customerKey
metaDataXML	MetaDataXML	Holds metadata XML of single parameter available under given T24 service operation	OUT	

This method will internally call 'getParameters' and filter single 'parameter' from it using TAF[C/J] function XMLTOXML by passing the following XSL:

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
<xsl:template match="/">
<xsl:copy-of select="/parameters/parameter[@name='customerKey']">
</xsl:copy-of>
</xsl:template>
</xsl:stylesheet>
```

getCustomizedTypeByName

This method will populate 'metaDataXML' class object with the metadata of the given customizedType applicable to specific T24 service.

Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
customizedTypeName	String	Service Operation Name	IN	e.g. Language
metaDataXML	MetaDataXML	Hold metadata XML of single customizedType available under given T24 service	OUT	

This method will internally call 'getParameters' and filter single 'parameter' from it using TAF[C/J] function XMLTOXML by passing the following XSL:



```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
<xsl:template match="/">
  <xsl:copy-of select="/parameters/parameter[@name='customerKey']">
</xsl:copy-of>
</xsl:template>
</xsl:stylesheet>
```

checkServiceExists

This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as 'o' (does not exist) or '1' (exists) for specific T24 serviceName provided.

Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
exists	Boolean	Exists	OUT	e.g. 0 or 1

This method will internally call 'getServiceByName' and check if metaDataXML contains service metadata information. Returns 'o' if metadata is empty or '1' if metadata contains valid xml.

checkOperationExists

This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as 'o' (does not exist) or '1' (exists) for specific operationName for given T24 serviceName provided.

Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
operationName	String	Service Operation Name	IN	e.g. getLanguage
exists	boolean	Exists	OUT	e.g. 0 or 1

This method will internally call 'getOperationByName' and check if metaDataXML contains service metadata information. Returns 'o' if metadata is empty or '1' if metadata contains valid xml.

checkParameterExists

This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as 'o' (does not exist) or '1' (exists) for specific parameterName in given operationName for given T24 serviceName provided.

Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
operationName	String	Service Operation Name	IN	e.g. getLanguage
parameterName	String	Operation Parameter Name	IN	e.g. customerKey
exists	boolean	Exists	OUT	e.g. 0 or 1

This method will internally call 'getParameterByName' and check if metaDataXML contains service metadata information. Returns 'o' if metadata is empty or '1' if metadata contains valid xml.



checkCustomizedTypeExists

This method will return 'exists' class object with the status of the existence check in terms of a Boolean value as '0' (does not exist) or '1' (exists) for specific customizedTypeName for given T24 serviceName provided.

Parameter Name	Type	Description	Direction	Format
serviceName	String	T24 Service Name	IN	e.g. Customer
customizedTypeName	String	Service Customized Type Name	IN	e.g. Language
exists	boolean	Exists	OUT	e.g. 0 or 1

This method will internally call 'getCustomizedTypeByName' and check if metaDataXML contains service metadata information. Returns '0' if metadata is empty or '1' if metadata contains valid xml.



Sample MetaDataXML

getServices

```
<?xml version="1.0" encoding="utf-8"?>

<services>

    <service xmlns="http://www.temenos.com/SOA/Meta" name="CustomerService" majorVersion="R11" minorVersion="1" vendor="temenos">

        <operations>

            <operation name="getProfile" integrationFlowSupportable="false">

                <parameter name="customerKey" typeName="String" isPrimitive="true" isCollection="false" isMandatory="false" direction="IN"/>

                <parameter name="customerProfile" typeName="Profile" isPrimitive="false" isCollection="false" isMandatory="false" direction="OUT"/>

            </operation>

            .....

        <customizedTypes>

            <customizedType name="Profile">

                <member name="assetClass" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="customerRating" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="customerStatus" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="globalCustomer" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="industry" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="nationality" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="region" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="residence" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="sector" typeName="String" isPrimitive="true" isCollection="false"/>

                <member name="target" typeName="String" isPrimitive="true" isCollection="false"/>

            </customizedType>

            .....

        </customizedTypes>

    </service>

</services>
```

getServiceByName

```
<?xml version="1.0" encoding="utf-8"?>

<service xmlns="http://www.temenos.com/SOA/Meta" name="CustomerService" majorVersion="R11" minorVersion="1" vendor="temenos">

    <operations>

        <operation name="getProfile" integrationFlowSupportable="false">

            <parameter name="customerKey" typeName="String" isPrimitive="true" isCollection="false" isMandatory="false" direction="IN"/>

        </operation>

    </operations>

</service>
```



```

<parameter name="customerProfile" typeName="Profile" isPrimitive="false" isCollection="false"
            isMandatory="false" direction="OUT"/>
</operation>
.....
<customizedTypes>
    <customizedType name="Profile">
<member name="assetClass" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="customerRating" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="customerStatus" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="globalCustomer" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="industry" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="nationality" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="region" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="residence" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="sector" typeName="String" isPrimitive="true" isCollection="false"/>
<member name="target" typeName="String" isPrimitive="true" isCollection="false"/>
        </customizedType>.....
</service>

```

getOperations

```

<?xml version="1.0" encoding="utf-8"?>
<operations>
    <operation name="getProfile" integrationFlowSupportable="false">
        <parameter name="customerKey" typeName="String" isPrimitive="true" isCollection="false"
            isMandatory="false" direction="IN"/>
        <parameter name="customerProfile" typeName="Profile" isPrimitive="false" isCollection="false"
            isMandatory="false" direction="OUT"/>
    </operation>
    .....
</operations>

```

getOperationByName

```

<?xml version="1.0" encoding="utf-8"?>
<operation name="getProfile" integrationFlowSupportable="false">
<parameter name="customerKey" typeName="String" isPrimitive="true" isCollection="false"
            isMandatory="false" direction="IN"/>
<parameter name="customerProfile" typeName="Profile" isPrimitive="false" isCollection="false"
            isMandatory="false" direction="OUT"/>

```



</operation>

getParameters

```
<?xml version="1.0" encoding="utf-8"?>

<parameters>

<parameter name="customerKey" typeName="String" isPrimitive="true" isCollection="false"
            isMandatory="false" direction="IN"/>

<parameter name="customerProfile" typeName="Profile" isPrimitive="false" isCollection="false"
            isMandatory="false" direction="OUT"/>

</parameters>
```

getParameterByName

```
<?xml version="1.0" encoding="utf-8"?>

<parameter name="customerKey" typeName="String" isPrimitive="true" isCollection="false"
            isMandatory="false" direction="IN"/>
```

getCustomizedTypeByName

```
<?xml version="1.0" encoding="UTF-8"?>

<customizedType name="Language">

<member name="language" typeName="String" isPrimitive="true" isCollection="false"/>

</customizedType>
```