
Rest services for OPUS Loen mobile app's

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1 General system environment

1.1 URL for business endpoints

For business developed REST services the following system environments is used.

	URL	ERP Backend system	ERP Portal System
UDV	https://udv-mobile.kmd.dk/	D01, T01	DPX (http://epnyudv.kmd.dk/irj/portal)
TST	https://tst-mobile.kmd.dk/	T01	TPX (http://eptest.kmd.dk/irj/portal)
QA	https://qa-mobile.kmd.dk/	Q01	QPX (http://epnytest.kmd.dk/irj/portal)
CAP	https://cap-mobile.kmd.dk/	P01, P02, P03, P04	PPX (http://portal.kmd.dk/irj/portal)
DEM	https://dem-mobile.kmd.dk/	U01	UPX (http://portalundervisning.kmd.dk/irj/portal)

1.2 HTTP header parameters

For all REST business services the following parameters must be included in the header for each call.

Parameter name	Description
UserName	Portal username registrered as a mobile user
Pincode	6 digit mobile pincode
Ticket	SAP logon ticket for backend

1.3 General error handling

All services implements one way to return error messages. When an error occurs an http error 400 will be returned. If a message should be showed for the user as a popup in the mobile app, the service will return a rest parameter called `errorReason` with the message.

2 myMileageRegistration

These services is made for the myMileageRegistration app which gives an employee the ability to track the daily travel by car and make an online registration from the phone to the OPUS system.

2.1 ReportMileage

Endpoint name:	(environment URL)/KMD.LPE.Mobile.MileageRegistration/MyMileageRegistration/ReportMileage		
Description	Service to report mileage to SAP OPUS backend		
Request type	POST		
REST input parameters	startAddress endAddress distanceOfTripInKilometers departureTimestamp vehicleRegistrationNumber templateID cause	String String decimal String String String String	"yyyy-MM-ddTHH:mm:ssZ", (RFC 3339 standard)
REST output parameters	If error errorReason	String	Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpe_set_mileage	R/3 RFC	Z_LPE_WEB_SET_MILEAGE
Data examples	Input body: <pre>{ "startAddress": "Laruritzend plads 1", "endAddress": "Dannebrogsgade 45", "distanceOfTripInKilometers": "356", "departureTimestamp": "2012-04-12T13:00:00Z", "vehicleRegistrationNumber": "MB22700", "templateID": "MOB_KORSEL1", "cause": "Bare fordi", }</pre>		

2.2 GetMileageTemplates

Endpoint name:	(environment URL)/KMD.LPE.Mobile.MileageRegistration/MyMileageRegistration/GetMileageTemplates		
Description	Service to report to get list of mileage templates to use for mileage reporting.		
Request type	GET		
REST input parameters			
REST output parameters	ID	String	Error message
	Name	String	
	If error errorReason	String	
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zipe_get_mobile_otp_templates	R/3 RFC	Z_LPE_WEB_GET_OTP_TEMPLATES
Data examples	Return body: <pre>{ "ID": "MOB_KOERSEL", "Name": "Kørsel høj takst", }</pre>		

3 myLeaveRequest

These services is made for the leave request app to enable the user to register absence and leave.

3.1 ReportLeaveRequest

Endpoint name:	(environment URL) /KMD.LPT.Mobile.LeaveRequest/MyLeaveRequest/ReportLeaveRequest		
Description	Service to report leave requests to SAP OPUS backend		
Request type	POST		
REST input parameters	absenceTypeID startDate endDate reasonID comment childID AbsenceRequestID ExtraDataID Operation OTPTemplateID absenceTypeIDOld startDateOld endDateOld	String String String String String String String String String String String String String	"yyyy-MM-ddTHH:mm:ssZ", (RFC 3339 standard) UTC time "yyyy-MM-ddTHH:mm:ssZ", (RFC 3339 standard) UTC time Optional Optional – Used for edit and delete of exiting request Optional – Used for WorkinjuryID or MaternityID Optional – set operation type CREATE (default if not set), DELETE or MODIFY Optional – set OTP template ID Used for DELETE or MODIFY Used for DELETE or MODIFY Used for DELETE or MODIFY
REST output parameters	If error errorReason	String	Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zplt_set_absence	R/3 RFC	Z_LPT_WEB_SET_ABSENCE
Data examples	Input body: <pre>{ "AbsenceTypeID": "SY", "StartDate": "2012-08-22T08:00:00Z", "EndDate": "2012-08-23T16:00:00Z", "ReasonID": "LÆ", "Comment": "", "ChildID": "01", }</pre>		

3.2 GetChildren

Endpoint name:	(environment URL) /KMD.LPT.Mobile.LeaveRequest/MyLeaveRequest/GetChildren		
Description	Return a list of children associated to the user		
Request type	GET		
REST input parameters			
REST output parameters	ID FirstName LastName If error errorReason	String String String	Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpt_get_children	R/3 RFC	Z_LPT_WEB_GET_CHILDREN
Data examples	Output body: <pre>{ "FirstName": "Mads", "LastName": "Jensen", "ID": "01" }, { "FirstName": "Mette", "LastName": "Jensen", "ID": "02" }</pre>		

3.3 GetAbsenceTypes

Endpoint name:	(environment URL) /KMD.LPT.Mobile.LeaveRequest/MyLeaveRequest/GetAbsenceTypes?GetFullList		
Description	Return a list of absence types the user is allowed to report absence on. Depending on the setting decided by the manager the list can consist of up to 5 absence types. If GetFullList is set to X then the full list of absence types is returned.		
Request type	GET		
REST input parameters	GetFullList	String	Optional set to X if fullabsence list is needed.
REST output parameters	ID Name DefaultHighDate If error errorReason	String String Boolean	When true The user should be allowed to report with an empty enddate and the app should set the end date to 9999-12-31 Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpt_get_absence_types	R/3 RFC	Z_LPT_WEB_GET_ABSENCE_TYPES
Data examples	Output body: <pre>{ "ID": "BS", "Name": "Hjemmeboende barn syg", "DefaultHighDate": "true" }, { "ID": "OS", "Name": "Omsorgsdage", "DefaultHighDate": "false" }</pre>		

3.4 GetReasonTypes

Endpoint name:	(environment URL)/KMD.LPT.Mobile.LeaveRequest/MyLeaveRequest/GetReasonTypes?AbsTypeID=		
Description	Return a list of reason types used for the absencetype TJ (Tjeneste fri).		
Request type	GET		
REST input parameters	AbsTypeID	String	OPTIONAL URL inline parameter to get list based on AbsType ID
REST output parameters	ID Name If error errorReason	String String	 Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpt_get_reasons	R/3 RFC	Z_LPT_WEB_GET_REASONS
Data examples	Output body: <pre>{ "ID": "AB", "Name": "Bryllup i den nærmeste familie", }, { "ID": "BO", "Name": "Borgerligt ombud", }</pre>		

3.5 GetAbsenceList

Endpoint name:	(environment URL)/KMD.LPT.Mobile.LeaveRequest/MyLeaveRequest/GetAbsenceList		
Description	Returns the list of reported absence based on StartDate		
Request type	POST		
REST input parameters	StartDate EmployeeID	String String	"yyyy-MM-dd", Optional. Default: today's day Optional. Default: USER's main employeeID
REST output parameters	AbsenceMainList RequestID AbsenceID AbsenceName Name StatusID StatusText Comments NewComment StartDate EndDate Hours EndTime StartTime UserID AbsenceExtra RequestID ActualDeliveryDate ChildCPR ChildID ExpectedDeliveryDate ReasonTypeID ReasonTypeText WorkInjuryDate WorkInjuryID If error errorReason	Stucture String String String String String String String String String String String String Stucture String String String String String String String String String	Key to find match in AbsenceExtra if available Key Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlst_get_absence	R/3 RFC	Z_LPT_WEB_GET_ABSENCE
Data examples	Output body: <pre>{ "AbsenceExtraList":[{ "ActualDeliveryDate":"0000-00-00", "ChildCPR":"", "ChildID":"", "ExpectedDeliveryDate":"0000-00-00", "ReasonTypeID":"BO", "ReasonTypeText":"Borgerligt ombud", "RequestID":"AC162DAAF1C01ED3B48AABF63244EBFD", "WorkInjuryDate":"0000-00-00", "WorkInjuryID":"00000000" }], }</pre>		

```
"AbsenceMainList":[{
  "AbsenceID":"TJ",
  "AbsenceName":"Tjenestefri",
  "Comments": "",
  "EndDate":"2014-04-28",
  "EndTime":"00:00",
  "Hours":"6,7",
  "Name": "",
  "NewComment": "",
  "RequestID":"AC162DAAF1C01ED3B48AABF63244EBFD",
  "StartDate":"2014-04-28",
  "StartTime":"00:00",
  "StatusID":"APPROVED",
  "StatusText":"Godkendt",
  "UserID":""
}]
}
```

3.6 GetWorkInjuryList

Endpoint name:	(environment URL) /KMD.LPT.Mobile.LeaveRequest/MyLeaveRequest/GetWorkInjuryList		
Description	Return a list of workinjury cases related to the user.		
Request type	POST		
REST input parameters	StartDate EndDate EmployeeID	String String String	"yyyy-MM-dd", <i>Optional</i> . Default: 1900-01-01 "yyyy-MM-dd", <i>Optional</i> . Default: 9999-12-31 <i>Optional</i> . Default: USER's main employeeID
REST output parameters	EmployeeID StartDate WorkInjuyID WorkInjuryDate If error errorReason	String String String String	"yyyy-MM-dd" "yyyy-MM-dd" Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpt_get_absence_types	R/3 RFC	Z_LPT_WEB_GET_ABSENCE_TYPES
Data examples			

3.7 GetMaternityList

Endpoint name:	(environment URL) /KMD.LPT.Mobile.LeaveRequest/MyLeaveRequest/GetMaternityList		
Description	Return a list of maternity cases related to the user.		
Request type	POST		
REST input parameters	AbsenceType StartDate EndDate EmployeeID	String String String String	AbsenceTypeID "yyyy-MM-dd", <i>Optional</i> . Default: 1900-01-01 "yyyy-MM-dd", <i>Optional</i> . Default: 9999-12-31 <i>Optional</i> . Default: USER's main employeeID
REST output parameters	EmployeeID StartDate EndDate ActualDevDeliveryDate AuthorityReportDate BirthTypeID BirthTypeText ExpectedDeliveryDate MaternityID NotificationDate If error errorReason	String String String String String String String String String String	 "yyyy-MM-dd" "yyyy-MM-dd" "yyyy-MM-dd" "yyyy-MM-dd" "yyyy-MM-dd" "yyyy-MM-dd" Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpt_get_absence_types	R/3 RFC	Z_LPT_WEB_GET_ABSENCE_TYPES
Data examples	Output body: <pre>[{ "ActualDevDeliveryDate":"2007-11-13", "AuthorityReportDate":"0000-00-00", "BirthTypeID":"BA", "BirthTypeText":"Barsel", "EmployeeID":"00030094", "EndDate":"2012-10-11", "ExpectedDeliveryDate":"2012-02-15", "MaternityID":"000", "NotificationDate":"2011-10-11", "StartDate":"2011-10-11" }]</pre>		

4 EmployeePhoto

This group of services is made for the employee photo app to enable the manager to upload foto for the employee in the department.

4.1 SearchEmployee

Endpoint name:	(environment URL)/ KMD.LPE.Mobile.EmployeePhoto/EmployeePhoto/SearchEmployee?Search=		
Description	Returns a list of employees based on the input search string. The search result matches either last-name or firstname and returns employees which the user is authorized to.		
Request type	GET		
REST input parameters	Search	String	Inline parameter in the endpoint URL
REST output parameters	EmployeeID FirstName LastName OrgUnitName OrgUnitID PositionID PositionName PhotoExists If error errorReason	String String String String String String String Boolean	Indicates whether a photo exists for the employee Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpe_search_employees	R/3 RFC	Z_LPE_WEB_SEARCH_EMPLOYEES
Data examples	Output body: <pre>{ "EmployeeID": "00008400", "FirstName": "Gitte", "LastName": "Helland", "OrgUnitID": "00867999", "OrgUnitName": "Plan-, Bygge- og Miljøcenter", "PhotoExists": false, "PositionID": "50026237", "PositionName": "teknisk designer" }</pre>		

4.2 EmployeePhoto (Get)

Endpoint name:	(environment URL)/ KMD.LPE.Mobile.EmployeePhoto/EmployeePhoto/EmployeePhoto/ <i>EmployeeID</i>		
Description	Returns the foto of the specified employee ContentType = "image/jpeg"		
Request type	GET		
REST input parameters	<i>EmployeeID</i>		Inline parameter in the endpoint URL
REST output parameters	JPEG stream in the http body (NOT base64 encoded!!) If error errorReason		Error message
HTTP error codes	400 401 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpe_get_employee_photo	R/3 RFC	Z_LPE_WEB_GET_EMPLOYEE_PHOTO
Data examples			

4.3 EmployeePhoto (Set)

Endpoint name:	(environment URL)/ KMD.LPE.Mobile.EmployeePhoto/EmployeePhoto/EmployeePhoto/ <i>EmployeeID</i>		
Description	Uploads a foto of the specified employee ContentType = "text/plain"		
Request type	POST		
REST input parameters	<i>EmployeeID</i> JPEG stream in http body Base64 encoded		Inline parameter in the endpoint URL
REST output parameters	If error errorReason		Error message
HTTP error codes	400 401 415 500	ErrorMessage in parameter ErrorJSON	
R/3 SOAP	zlpe_upload_photo	R/3 RFC	Z_LPE_WEB_UPLOAD_PHOTO
Data examples			

5 QuotaBalance

Something.....

5.1 GetQuotas

Endpoint name:	(environment URL)/KMD.LPT.Mobile.QuotaBalance/QuotaBalance/GetQuotas		
Description	<p>Returns a list of quotas based on the date parameter and the user making the call. If the date is not specified current day will be used automatically.</p> <p>Errors is logged in RSWATCH with ID KMD.LPT.Mobile.QuotaBalance</p>		
Request type	POST		
REST input parameters	date (Optional)	String	In the format yyyy-MM-dd
REST output parameters	message status quotas quotaUnit quotaBalance quotaBalanceHours quotaID quotaText periodeAccumulatedEnd periodeAccumulatedStart periodeExecutedEnd periodeExecutedStart	String String LIST String String String String String String String String	If statuscode 6 there will be a message for the user. StatusList: 0 Succes, 1 TicketMissingFromHeader, 2 LogicalSystemnameMissingFromHeader, 3 CustomernumberMissingFromHeader, 4 ConfigurationError, 5 NoResponseFromSAPPortal, 6 SAPServiceMessage, 7 Error, 8 TicketExpired 9 InvalidStartDate
HTTP error codes			
R/3 SOAP	ZLPT_GET_QUOTA_LIST	R/3 RFC	Z_LPT_WEB_GET_QUOTA_LIST
Data examples	<p>Input Body</p> <pre>{ "date" : "2012-02-02" }</pre> <p>Output body:</p> <pre>{ "mesage":""," "status":0, "quotas":[{ "quotaUnit":"Dage", "quotaBalance":"4,00", "quotaBalanceHours":""," "quotaID":"01",</pre>		

```

"quotaText":"Omsorgsdage",
"periodeAccumulatedEnd":"2013-12-31",
"periodeAccumulatedStart":"2013-01-01",
"periodeExecutedEnd":"2013-12-31",
"periodeExecutedStart":"2013-01-01"
},
{
"quotaUnit":"Dage",
"quotaBalance":"3,00",
"quotaBalanceHours":"",
"quotaID":"02",
"quotaText":"Overførte omsorgsdage",
"periodeAccumulatedEnd":"2013-12-31",
"periodeAccumulatedStart":"2013-01-01",
"periodeExecutedEnd":"2013-12-31",
"periodeExecutedStart":"2013-01-01"
},
{
"quotaUnit":"Timer",
"quotaBalance":"27,92",
"quotaBalanceHours":"",
"quotaID":"10",
"quotaText":"Ferietimer",
"periodeAccumulatedEnd":"2012-12-31",
"periodeAccumulatedStart":"2012-01-01",
"periodeExecutedEnd":"2014-04-30",
"periodeExecutedStart":"2013-05-01"
}
}
]]

```

5.2 GetQuotaDetails

Endpoint name:	(environment URL)/KMD.LPT.Mobile.QuotaBalance/QuotaBalance/GetQuotaDetails		
Description	Returns a list of quotas based on the date and quotaID parameter and the user making the call. If the date is not specified current day will be used automatically. Errors is logged in RSWATCH with ID KMD.LPT.Mobile.QuotaBalance		
Request type	POST		
REST input parameters	date (Optional) quotaID	String String	In the format yyyy-MM-dd
REST output parameters	message status quotas	String String LIST	If Errorcode 6 there will be a message for the user. ErrorList: 0 Succes,

	activityID activityText employmentDenominator employmentNumerator startDate endDate quotaBalance quotaBalanceSum quotaUnit yearAccrued yearExecuted	String String String String String String Decimal Decimal String String String	1 TicketMissingFromHeader, 2 LogicalSystemnameMissingFromHeader, 3 CustomernumberMissingFromHeader, 4 ConfigurationError, 5 NoResponseFromSAPPortal, 6 SAPServiceMessage, 7 Error, 8 TicketExpired 9 InvalidStartDate 10 InvalidEndDate 11 MissingQuotaID
HTTP error codes			
R/3 SOAP	ZLPT_GET_QUOTA_HISTORY	R/3 RFC	Z_LPT_WEB_GET_QUOTA_HISTORY
Data examples	Input Body <pre>{ "quotaID":"02", }</pre> Output Body <pre>{ "message": "", "status": 0, "quotaDetails": [{ "quotaUnit": "Dage", "yearExecuted": "2013", "yearAccrued": "2012", "activityID": "01", "activityText": "Optjening", "quotaBalance": 3.0, "quotaBalanceSum": 3.0, "startDate": "2013-01-01", "endDate": "2013-12-31", "employmentDenominator": "037000", "employmentNumerator": "033500" }] }</pre>		

6 HRDevelopment

Something.....

6.1 GetQualifications

Endpoint name:	(environment URL)/KMD.LPU.Mobile.HRDevelopment/HRDevelopment/GetQualifications		
Description	Returns a list of qualifications based on the year parameter and the user making the call Errors is logged in RSWATCH with ID KMD.LPU.Mobile.HRDevelopment		
Request type	POST		
REST input parameters	Year	String	In the format yyyy
REST output parameters	message status Qualifications ID Type Name Group StartDate EndDate RatingID Achieved	String String LIST String String String String String String String String String	If statuscode 6 there will be a message for the user. StatusList: 0 Succes, 1 TicketMissingFromHeader, 2 LogicalSystemnameMissingFromHeader, 3 CustomernumberMissingFromHeader, 4 ConfigurationError, 5 NoResponseFromSAPPortal, 6 SAPServiceMessage, 7 Error, 8 TicketExpired 9 InvalidStartDate
HTTP error codes			
R/3 SOAP	zlpu_get_emp_qual	R/3 RFC	Z_LPU_WEB_GET_EMP_QUAL
Data examples	Input Body <pre>{ "Year": "2014" }</pre> Output body: <pre>{ "message": "", "status": 0, "qualifications": [{ "ID": "50032335", "Type": "P", "Name": "Formidling og sprogbrug", "Group": "Ledelse", "StartDate": "2014-05-12", </pre>		

	<pre> "EndDate": "9999-12-31", "RatingID": "0002", "Achieved": "" }, { "ID": "50032336", "Type": "P", "Name": "Strategisk planlægning", "Group": "Ledelse", "StartDate": "2014-05-12", "EndDate": "9999-12-31", "RatingID": "0000", "Achieved": "" }] } </pre>

6.2 GetQualificationDetail

Endpoint name:	(environment URL)/ KMD.LPU.Mobile.HRDevelopment/HRDevelopment/GetQualificationDetail		
Description	Returns the details of the qualification specified in the QualificationID parameter. Errors is logged in RSWATCH with ID KMD.LPU.Mobile.HRDevelopment		
Request type	POST		
REST input parameters	QualificationID Plan	String String	
REST output parameters	message status QualificationDetail Name StartDate EndDate PSText Flag Description "" Scale RatingID RatingText	String String Object String String String String String List String List String String	If Errorcode 6 there will be a message for the user. ErrorList: 0 Succes, 1 TicketMissingFromHeader, 2 LogicalSystemnameMissingFromHeader, 3 CustomernumberMissingFromHeader, 4 ConfigurationError, 5 NoResponseFromSAPPortal, 6 SAPServiceMessage, 7 Error, 8 TicketExpired 9 InvalidStartDate 10 InvalidEndDate 11 MissingQuotaID
HTTP error codes			

R/3 SOAP	zlpu_get_qual_detail	R/3 RFC	Z_LPU_WEB_GET_QUAL_DETAIL
Data examples	<p>Input Body</p> <pre>{ "QualificationID": "50032335", "Plan": "1" }</pre> <p>Output Body</p> <pre>{ "message": "", "status": 0, "QualificationDetail": { "Name": "Formidling og sprogbrug", "StartDate": "1900-01-01", "EndDate": "9999-12-31", "PSText": "", "Flag": "", "Description": ["Jeg har viden om hvorfor, hvornår og hvordan et budskab skal formidles.", "", "Jeg kender til afsender- og modtagerrelationen og kan derudfra vurdere hvilke", "medier, der skal anvendes.", "", "Jeg kan bedømme eller skrive tekster i forskellige genrer med en sprogbrug, som", "er tilpasset målgruppen.", "", "Jeg kan anvende viden om kommunikationsprocesser til at rådgive i konkrete", "situationer og kan identificere emner, der kan eller bør formidles til borgere"], "Scale": [{"RatingID": "0001", "RatingText": "Mindre tilfredsstillende"}, {"RatingID": "0002", "RatingText": "Jævn tilfredsstillende"}, {"RatingID": "0003", "RatingText": "Tilfredsstillende"}, {"RatingID": "0004", "RatingText": "Meget tilfredsstillende"}, {"RatingID": "0005", "RatingText": "Særlig god"}] } }</pre>		

6.3 GetAppraisals

Endpoint name:	(environment URL)/KMD.LPU.Mobile.HRDevelopment/HRDevelopment/GetAppraisals		
Description	<p>Returns a list of qualifications based on the year parameter and the user making the call</p> <p>Errors is logged in RSWATCH with ID KMD.LPU.Mobile.HRDevelopment</p>		
Request type	POST		
REST input parameters	Year EmployeeID	String String	In the format yyyy <i>Optional</i> . Default: USER's main employeeID
REST output parameters	message status	String String	If Errorcode 6 there will be a message for the user.

	Appraisals Name ID Status	Object String String String	ErrorList: 0 Succes, 1 TicketMissingFromHeader, 2 LogicalSystemnameMissingFromHeader, 3 CustomernumberMissingFromHeader, 4 ConfigurationError, 5 NoResponseFromSAPPortal, 6 SAPServiceMessage, 7 Error, 8 TicketExpired 9 InvalidStartDate 10 InvalidEndDate 11 MissingQuotaID
HTTP error codes			
R/3 SOAP	zlpu_appraisee_get_list	R/3 RFC	ZLPU_APPRAISEE_GET_LIST
Data examples	Input Body <pre>{ "Year": "2014", }</pre> Output Body <pre>{ }</pre>		