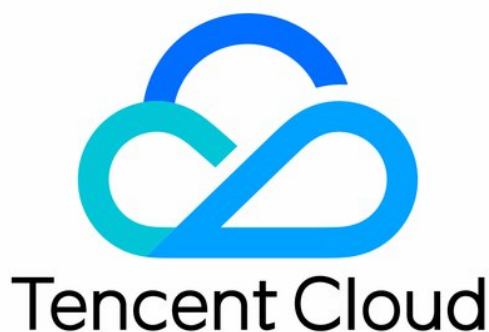


Digital and Intelligent Medical Imaging Platform API Documentation Product Documentation



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API Documentation

API Overview

Last updated : 2025-03-07 17:07:29

Digital and Intelligent Medical Imaging Platform (AIMIS) provides easy-to-use open capabilities for medical customers and partners. By simply calling APIs, examination images, reports, and information from within the hospital can be uploaded to the imaging cloud platform. QR codes and business information from the cloud can be sent back to the hospital, and the platform's services can be integrated with internet hospital services to achieve a connected and collaborative experience for remote medical full-scenario.

Update Dynamics

Last updated : 2025-03-07 17:07:29

Update Revision History

Version No.	Update Description	Update Time
V1.0.0	PACS upload check information API Publish PACS upload check report API Publish Return cloud check QR code API Publish PACS upload DICOM image API Publish Mark for Deletion check API Publish Check Data Reconciliation API Publish Upload Check Information API Add Patient Age Unit Field	2025-01-16

Check Cloud Migration APIs

Last updated : 2025-03-07 17:07:29

This API enables the existing third-party systems in the hospital (e.g., PACS, RIS) to push examination information, reports, and images to the gateway, and then stores them in the cloud.

Authentication Method

HTTP API general signature uses the following signature algorithm:

$$\{\text{signature}\} = \text{Hmac-Sha256}(\{\text{token}\}, \{\text{appld}\} + \{\text{timestamp}\})$$

Parameter description:

token: key, assigned by the Tencent system.

appld: partner ID, assigned by the Tencent system.

timestamp: timestamp, the current generated timestamp in milliseconds.

signature: generated key signature.

All APIs require request authentication by including the corresponding information in the HTTP request header:

signature corresponds to the signature field in the HTTP protocol header.

appld corresponds to the appld field in the HTTP protocol header.

timestamp corresponds to the timestamp field in the HTTP protocol header.

API Description

trigger timing: upon completion of the check, upload the check information when the image is received.

Transmission Protocol: HTTPS POST

Data interaction format: JSON (Content-Type: application/json)

API address: Address: `https://{host}/ris/study/add`, where host is the IP of the deployed front-end machine.

API parameter type description:

Parameter Type	Type Overview
A	Required. Missing this will cause an error and reject data reception, resulting in business disruption.
B	Required if present. Missing this will still allow data reception but may affect business operations.
C	Optional. Missing this will still allow data reception and will not affect business operations.

Request Parameters

Parameter Name	Type	Required or Not	Parameter Type	Remarks
patientId	string	Required	A	Patient ID
patientName	string	Required	A	Patient name
patientSex	string	Required	A	Patient gender M: Male F: Female O: Others
studyId	string	Required	A	Check ID
accessNumber	string	Required	A	AccessNumber
modality	string	Required	A	Device Type
patientAge	string	Required	B	Patient age
patientAgeUnit	string	Required	B	Patient age unit, Y (years), M (months), D (days)
patientBirthday	string	Required	B	Patient's birthday, yyyy-MM-dd
size	string	Required	B	Patient's height (m)
weight	string	Required	B	Patient's weight (kg in kilograms)
phoneNum	string	Required	B	Phone number
medicalInsuranceNum	string	Required	B	Medical insurance number
idCardNum	string	Required	B	ID No.
hkAndMarcoPermitNum	string	Required	B	Hong Kong and Macao Travel Permit No.
passportNum	string	Required	B	Passport No.
otherInfo	string	Required	B	Other identity information
homeAddress	string	Optional	C	Home address
bodyPart	string	Required	B	Inspection part

studyDesc	string	Required	B	Check description
studyDate	string	Required	B	Check time, yyyy-MM-dd hh:mm:ss
appointDate	string	Optional	C	Scheduled Time
scanMode	string	Required	B	Scan method
studyCategory	string	Required	B	Inspection Category normal: General Consultation emergency: Emergency Consultation
applyDept	string	Required	B	Application department
applyDoctor	string	Required	B	Application doctor
applyDeptId	string	Required	B	Application department ID
applyDoctorId	string	Required	B	Application doctor ID
hisNum	string	Required	B	HIS number
clinicNum	string	Optional	C	Outpatient number
inpatientNum	string	Optional	C	Hospitalization number
healthScreenNum	string	Optional	C	Physical examination number
examDept	string	Required	B	Inspection department
examDoctor	string	Required	B	Inspection doctor
examDeptId	string	Required	B	Inspection department ID
examDoctorId	string	Required	B	Inspection doctor ID
examInfo	string	Optional	C	Inspection information (exposure times, inspection cost)
inpatientWard	string	Optional	C	Hospitalization ward
bedNum	string	Optional	C	Hospitalization bed number
diagnosis	string	Optional	C	Clinical diagnosis
symptom	string	Optional	C	Clinical symptoms
allergies	string	Optional	C	Allergic reaction
studyRequirement	string	Optional	C	Check requirements

equipment	string	Optional	C	Inspection equipment
status	string	Required	B	Check status registered: Registration partial: Initial Consultation preliminary: Audit print: print final: final status
studyUid	string	Required	B	Check the Uid
imageCnt	int	Required	B	Number of images (Data Reconciliation)
reportCnt	int	Required	B	Number of structured reports (Data Reconciliation)
pdfCnt	int	Required	B	Number of PDF reports (Data Reconciliation)
seriesCnt	int	Required	B	Number of sequences (Data Reconciliation)

Request Return

Field	Type	Remarks
code	int	Error code indicating whether the access was successful. 0: success; other values: failure.
message	string	Error Description

Internet Hospital APIs

Last updated : 2025-03-07 17:07:30

Overview

Digital and Intelligent Medical Imaging Platform (AIMIS) provides integration with Internet hospitals, enabling synchronization of user examination, report, and imaging information, as well as business interactions.

Parameter Description

HTTP API general signature uses the following signature algorithm:

$$\{\text{signature}\} = \text{Hmac-Sha256}(\{\text{token}\}, \{\text{appld}\} + \{\text{timestamp}\})$$

Parameter description:

token: key, assigned by the Tencent system.

appld: partner ID, assigned by the Tencent system.

timestamp: timestamp, the current generated timestamp in milliseconds.

signature: generated key signature

All APIs require request authentication by including the corresponding information in the HTTP request header:

signature corresponds to the signature field in the HTTP protocol header.

appld corresponds to the appld field in the HTTP protocol header.

timestamp corresponds to the timestamp field in the HTTP protocol header.

Checklist Query API

Usage scenario: patient query for examination information completed within the hospital (distinguished by the usage field in the request parameter data purpose).

Protocol: HTTPS

Address: <https://pacs.qq.com/thirdparty/patientStudies/{appld}>

Data interaction format: JSON (application/json)

Use flow: patient examination list query > consultation to retrieve patient examination information > select candidate list to add examination information, distinguished by the usage field in the request parameter data purpose.

Request parameters.

Parameter Name	Type	Required or Not	Remarks
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phoneNum	string	Yes	Patient phone number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
idNum	string	Yes	Patient identity card number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
hisId	string	No	Hospital Information System ID, HIS number, if available
patientName	string	No	Patient name
hospitalId	string	Yes	Hospital ID (Tencent Miying Imaging Cloud System Hospital ID)
unionId	string	Yes	Medical Consortium ID (Tencent Miying Imaging Cloud System Medical Consortium ID)
studyType	int	Yes	Check type. 0: Radiology 1: Ophthalmology 2: Pathology 3: Endoscopy 4: Electrocardiogram 5: Ultrasound
dataFlag	int	Yes	Data Identification. 0: Show all data of the patient 1: Show only data from this hospital (based on hospital ID) 2: Show data excluding this hospital (based on hospital ID) 3: Show only data from the current medical alliance (based on medical alliance ID) 4: Show data excluding the current medical alliance (based on medical alliance ID)
usage	int	Yes	Data Purpose. 0: Patient views Checklist 1: Patient online consultation scenario 2: Doctor views patient details
studyDateBegin	string	Yes	Check time query start time, yyyy-MM-dd hh:mm:ss.
studyDateEnd	string	Yes	Check time query end time, yyyy-MM-dd hh:mm:ss.

Request Return

Field	Type	Remarks
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code	int	Error code indicating whether the access was successful. 0: success; other values: failure.
message	string	Error Description
data	list (Study)	data detail, JSON list

Checking Data Format

Field	Type	Remarks
hisId	string	Hospital Information System ID, HIS number
reportId	string	Imaging cloud returns reportId
studyType	int	Check type. 0: Radiology 1: Ophthalmology 2: Pathology 3: Endoscopy 4: Electrocardiogram 5: Ultrasound
studyDate	string	Check time, yyyy-MM-dd hh:mm:ss
studyId	string	Check number, Check ID
bodyPart	string	Inspection part
studyName	string	Check project
applyDoctor	string	Application doctor
applyDoctorId	string	Application doctor ID
applyDept	string	Application department
applyDeptId	string	Application department ID
uniAppId	string	mini program appid redirection
uniPath	string	Check details, mini program jump path with parameters
h5Url	string	Check report details, H5 redirection URL
h5DetailUrl	string	Check imaging details, H5 redirection URL

Consultation Record Query API

Usage scenario: Doctor queries remote consultation records

Protocol: HTTPS

Address: [https://pacs.qq.com/thirdparty/patientConsultations/\\${appId}](https://pacs.qq.com/thirdparty/patientConsultations/${appId})

Data interaction format: JSON (application/json)

Request parameters.

Parameter Name	Type	Required or Not	Remarks
hisId	string	Yes	Hospital Information System ID, HIS number
phoneNum	string	Yes	Patient phone number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
idNum	string	Yes	Patient identity card number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
patientName	string	No	Patient name
hospitalId	string	Yes	Hospital ID (Tencent Miying Imaging Cloud System Hospital ID)
unionId	string	Yes	Medical Consortium ID (Tencent Miying Imaging Cloud System Medical Consortium ID)

Request Return

Field	Type	Remarks
code	int	Error code indicating whether the access was successful. 0: success; other values: failure.
message	string	Error Description
data	struct	Data details

<Data Format>

Field	Type	Remarks
h5Url	string	Patient consultation list, H5 redirection URL

Check Report URL Retrieval API

Protocol: HTTPS

Address: `https://pacs.qq.com/thirdparty/patientReportUrl/${appId}`

Data interaction format: JSON (application/json)

Use flow: After redirecting to the third-party mini program from the Imaging Cloud, get the Imaging Cloud report URL through reportId.

Request parameters.

Parameter Name	Type	Required or Not	Remarks
reportId	string	Yes	Imaging cloud returns reportId
phoneNum	string	Yes	Patient phone number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
idNum	string	Yes	Patient identity card number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
hospitalId	string	Yes	Hospital ID (Tencent Miying Imaging Cloud System Hospital ID)

Request Return

Field	Type	Remarks
code	int	Error code indicating whether the access was successful. 0: success; other values: failure.
message	string	Error Description
data	PatientStudyUrl	data detail, JSON object

PatientStudyUrl Data Format

Field	Type	Remarks
h5Url	string	Check report details, H5 redirection URL
h5DetailUrl	string	Check imaging details, H5 redirection URL
studyId	string	Check number, Check ID, aligned with hospital system

Check Status Synchronization Callback API

Usage scenario: When receiving imaging examination information, report information, and image information on the Cloud Platform, the partner's API will be called back to synchronize Imaging Cloud status information, facilitating the wechat official account to push template messages.

Protocol: HTTPS

Address: defined by the partner

Data interaction format: JSON (application/json)

Request parameters.

Parameter Name	Type	Required or Not	Remarks
status	int	Yes	0: Only inspection information obtained 1: Report obtained 2: Image has been obtained 3: Report and image obtained
phoneNum	string	Yes	Patient phone number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
idNum	string	Yes	Patient identity card number, encrypt the Field using the algorithm (AES-256-ECB + HEX), with the key being the same as the signature token (32 characters).
patientId	string	Yes	Patient ID
hospitalId	string	Yes	Hospital ID (Tencent Miying Imaging Cloud System Hospital ID)
hisId	string	No	Hospital Information System ID, HIS number, if available
studyType	int	Yes	Check type. 0: Radiology 1: Ophthalmology 2: Pathology 3: Endoscopy 4: Electrocardiogram 5: Ultrasound
studyDate	string	Yes	Check time, yyyy-MM-dd hh:mm:ss

studyId	string	Yes	Check number, Check ID
bodyPart	string	No	Check the part, if available
studyName	string	No	Check the item, if available
h5Url	string	Yes	Check report details, H5 redirection URL
h5DetailUrl	string	Yes	Check imaging details, H5 redirection URL
reportId	string	Yes	Returned reportId, used to get the patient check report URL

Request Return

Field	Type	Remarks
code	int	Whether the request is successfully received, 0 for success, non-0 for failure
message	string	Error Description

Error Codes

Last updated : 2025-03-07 17:07:30

Error Code	Description
0	Request succeeded
1	Other internal errors
100001	Parameter error
100002	Failed to save data
100003	Data sync failed
100004	No data found
10001	File save failed
10002	File delete failed
10003	No data found
10004	Data duplicate.
10005	Data is not valid
20001	Captcha error
20002	Captcha expired
20003	The number of Captcha requests today has reached the upper limit.
20004	The number of attempts has reached the upper limit.
20005	Account identity verification has expired.
20006	Account identity verification failed.
20007	This account is logged in on another device. Please log in again.
20008	The user has no permissions.
20009	The shared link is invalid.
20010	The user is disabled.

20011	The user has not bound a phone number.
20012	The user is not an admin.
20013	The user already exists.
20014	The user does not exist.
20015	The organization name has been used.
20016	The organization does not exist.
20017	Sharing requires a password or the password is incorrect.
20018	The medical alliance name already exists.
20019	The department name exists.
20020	The device name already exists.
20021	The device type name already exists.
20022	No Access Permission for sharing, please scan the code again.
20023	The medical alliance does not exist.
20024	The department does not exist.
20025	The device does not exist.
20026	The device type does not exist.
20027	The doctor already exists.
20028	The doctor does not exist.
20029	Application already submitted
20030	Invalid format
20031	Required parameter is missing
20032	Invalid WeCom userID
30001	Report query failed
30002	Check ID nonexistent
30003	The report does not exist

30004	Report already exists
30005	Failed to create report
30006	Report has been modified
30007	Failed to update report
30008	Check not found
30009	No permission to view this check
30010	Report locked
30011	Unable to unlock report
30012	Check part exists
30013	Check part nonexistent
30014	Check item exists
30015	Check item nonexistent
40001	GenSig failed
40002	LIVEROOM query failed
40003	LIVEROOM modification failed
40004	LIVEROOM cancellation failed
40005	LIVEROOM not found
40006	LIVEROOM creation failed
40007	Failed to create group chat
40008	The meeting has started, modification failed
40009	The meeting has started, cancellation failed
40010	Failed to lock Meeting Summary
40011	The number of invited experts exceeds the limit
50001	The number of members has reached the maximum limit
50002	Member does not exist or does not have permission

50003	Member identity card number error
50004	Member scan code exceeds daily limit
50005	Member identity card number error
50006	Member identity card mismatch
60001	Failed to delete knowledge base content
60002	Folder already exists
60003	The text title already exists
60004	Folder name or text title cannot be empty
60005	The module has been deleted
60006	Exceeded hierarchy limit
70001	Patient query failed
80001	User query failed
90001	Invalid token
90002	Invalid signature
90003	Exceeded maximum retrieval attempts