

Name of Data Element	Description	Narrative
ACME_ACCOUNTING_SYSTEM	System	The system developed by Acme Accounting Services to process EFT payments and track member status
add_member	Procedure: Input: necessary_member_details Output: necessary_member_details	This procedure receives the necessary_member_details as input from an OPERATOR, and outputs the necessary_member_details to add a member using the update_member_data procedure.
add_provider	Procedure: Input: necessary_provider_details Output: necessary_provider_details	This procedure receives the necessary_provider_details as input from an OPERATOR, and outputs the necessary_provider_details to add a provider using the update_provider_data procedure.
calculate_fees	Procedure: Input: service_code service_fee Output: fee_total	This procedure takes a service_code as input and uses it to retrieve the service_fee input from the SERVICE_DATA record. All fees are summed to create the fee_total, provided as output the the create_provider_report, create_summary_report, and calculate_sum_of_all_fees procedures.
calculate_sum_of_all_fees	Procedure: Input: fee_total Output: sum_fee_total	This procedure receives the fee_total as input from the calculate_fees procedure and outputs a the sum of these values as sum_fee_total to the create_summary_report procedure.
CHOCOAN_TERMINAL	Computer terminal	A computer terminal provided to all PROVIDERs of ChocAn services used to communicate with the main computer system.
city	14-character String	String containing a city name
comments	100-character String	A string for optional additional comments to be added to the service_record
create_eft_record	Procedure: Input: eft_record Output: eft_record	This procedure takes as input the eft_details information provided by the create_provider_report and writes the information as output to the EFT_RECORD
create_member_report	Procedure: Input: member_info service_info Output: member_report	This procedure takes as input the member_info and service_info that week for every MEMBER and creates a member_report as output. This report is created by the system every Friday at midnight, or any time upon MANAGER request. The report is sent as an email attachment to the manager and each member using services that week.

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create_provider_report	Procedure: Input: provider_details fee_total service_details_for_report Output: provider_report eft_record	This procedure takes the provider_details, fee_total, and service_details_for_report and combines them into the output provider_report which is sent as an email attachment to the MANAGER and each PROVIDER who provided services in a given week. This report is created by the system every Friday at midnight, or any time upon MANAGER request. The procedure also outputs the eft_record to the create_eft_record procedure to record payments.
create_service_record	Procedure: Input: current_date_time provider_number service_details Output: service_record service_number	This procedure takes as input the service_details entered by a PROVIDER, as well as the current date and time and provider_number from the CHOCOAN_TERMINAL. It combines these to write the output service_record to PROVIDED_SERVICE_RECORD, unless the user has entered an incorrect service_code, in which case an error message is returned. If successful, the service_number is provided as output for the look_up_fee procedure.
create_summary_report	Procedure: Input: weekly_details fee_total sum_fee_total Output: summary_report	This procedure takes the weekly_details, fee_total, and sum_fee_total as inputs and combines them into the document summary_report, output as an email attachment. The report is generated every Friday at midnight and sent to the MANAGER of accounts payable, or requested and sent at any time by a ChocoAn MANAGER.
current_date_time	Date	Time and date system executes create_service_record, stored in format MM-DD-YYYY HH:MM:SS
date_provided	Date	Calendar date stored in format MM-DD-YYYY
eft_details	Record of fields: fee_total other details	These fields contain all the details of a eft_record. Other details contain the necessary provider info needed to transfer funds to a particular PROVIDER. These details have yet to be determined from ChocoAn.
EFT_RECORD	Record store	Stores the payment details for ChocoAn to make weekly payments to its PROVIDERS
error_message	String	A string to display error messages from the system
fee_total	Float	Fee for total number of provided services in a given week with format \$99,999.99
look_up_fee	Procedure: Input: service_code Output: service_fee	This procedure takes a service_code as input from the create_service record procedure. It returns the corresponding service_fee as output for verification by the PROVIDER.
MANAGER	Person	A manager at ChocoAn
MEMBER	Person	A member of ChocoAn
MEMBER_CARD	Plastic card with magnetic strip	A plastic card supplied to members of ChocoAn with information coded on a magnetic strip.
MEMBER_DATA	Record store	Stores details of each MEMBER enrolled with ChocoAn

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member_info	Record of fields: member_name member_number street_address city state zip	Fields needed to create a member_report
member_name	25-character String	String value containing the name of a MEMBER corresponding with a member_number
member_number	9-digit integer	Unique number created for each new member added to the ChocoAn system
member_report	Document with fields: member_name member_number street_address city state zip For each service: date_provided provider_name service_name	A list of services provided to an individual member sorted in order of service date.
member_status	String	String value containing the current status of a membership
necessary_member_details	Record of fields	A record of fields to modify member data in the ChocoAn system. Adding a member requires all member details, updating a member requires relevant details, deletion requires a member_number.
necessary_provider_details	Record of fields	A record of fields to modify provider data in the ChocoAn system. Adding a provider requires all provider details, updating a provider requires relevant details, deletion requires a provider_number.
OPERATOR	Person	An employee of ChocoAn trained and authorized to use the system
PROVIDED_SERVICE_RECORD	Record store	Stores the history of all services provided to MEMBERS
PROVIDER	Person	A provider of medical services
PROVIDER_DATA	Record store	Stores details of each PROVIDER associated with ChocoAn
provider_details	Record of fields: provider_name provider_number street_address city state zip	Fields needed to create a provider_report
provider_directory	Document	An alphabetically ordered list of service names and corresponding codes and fees.
provider_name	25-character String	String value containing the name of a PROVIDER corresponding with a provider_number

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provider_number	9-digit integer	Unique number created for each new provider added to the ChocoAn system
provider_report	Document with fields: provider_name provider_number street_address city state zip For each service: date_provided current_date_time member_name member_number service_code service_fee total_consultations fee_total	A list of services provided to a member by a particular provider, in order of date received by the system.
send_directory	Procedure: Input: directory_request Output: provider_directory	This procedure takes a directory_request as input and returns the output provider_directory as an email attachment to the requesting PROVIDER.
service_code	6-digit integer	Unique number created for each new service added to the ChocoAn system
SERVICE_DATA	Record store	Stores all current services provided by ChocoAn PROVIDERs
service_details	Record of fields: date_provided member_number service_code comments	Fields are entered by a provider when creating a service_record
service_details_for_report	Record of fields: date_provided current_date_time member_name member_number service_code total_consultations	Fields needed to create a provider_report
service_fee	Float	Fee for a provided service with format \$999.99
service_info	Record of fields: date_provided provider_name service_name	Fields needed to create a member_report
service_name	20-character String	String value containing the name of a provided service corresponding to a service_code

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service_record	Record of fields: current_date_time date_provided provider_number member_number service_code comments	These fields contain all the details of a service record
state	2-character String	String containing a 2 letter state code
street_address	25-character String	String containing a street address
sum_fee_total	Float	A sum total of all fees to be paid by ChocoAn in a given week to all PROVIDERs providing services that week. The exact format has yet to be determined.
summary_report	Document with fields: For each provider: provider_name total_consultations fee_total total_providers sum_total_consults sum_fee_total	A list of provided consultations in a week, along with total weekly values.
total_consultations	3-digit integer	The sum total of the number of consultations given by a PROVIDER in a given week
total_providers	Integer	Total number of PROVIDERs providing services within a given week. The exact integer format has yet to be determined.
update_member	Procedure: Input: necessary_member_details member_status Output: necessary_member_details	This procedure receives the necessary_member_details as input from an OPERATOR, or the member_status from the ACME_ACCOUNTING_SYSTEM and outputs the necessary_member_details to update a member using the update_provider_data procedure.
update_member_data	Procedure: Input: necessary_member_details Output: necessary_member_details	This procedure receives the necessary_member_details or member_number as input and outputs the necessary_member_details to add, update, or delete a member in the ChocoAn system.
update_provider	Procedure: Input: necessary_provider_details Output: necessary_provider_details	This procedure receives the necessary_provider_details as input from an OPERATOR, and outputs the necessary_provider_details to update a provider using the update_provider_data procedure.

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update_provider_data	Procedure: Input: necessary_provider_details Output: necessary_provider_details	This procedure receives the necessary_provider_details or provider_number as input and outputs the necessary_provider_details to add, update, or delete a provider in the ChocoAn system.
validate_membership	Procedure: Input: member_number Output: member_status	This procedure takes as input the member_number from reading a MEMBER_CARD or keyed in by a PROVIDER. A status message or appropriate error_message is returned as output back to the PROVIDER.
verify_service_code	Procedure: Input: service_code Output: service_name	This procedure takes as input the service_code and returns the corresponding service_name as output back to the PROVIDER.
weekly_details	Record of fields: provider_name total_consultations total_providers	Fields needed to create a summary_report
zip	5-digit integer	Zip code