

GENESYS

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Outbound Contact Deployment Guide

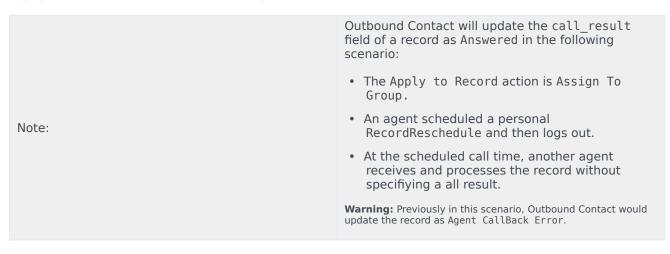
Apply to Record Actions

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Apply to Record Actions

When creating a Treatment object in Genesys Administrator, you must assign an Apply to Record action to unsuccessful call results—for example, busy or no answer. For configuration instructions and Apply to Record definitions and configuration instructions, see Treatment Object.



Only the following Apply to Record actions can be configured for the "Agent CallBack Error" call result:

- Assign to Group
- · Mark as Agent Error
- Redial
- · Retry at specified date
- · Retry in

Rules for Next-in-Chain Actions

The three Next-in-Chain actions have special rules. All records in a calling list are assigned a chain ID and chain number, even if there is only one record in a chain. These are unlinked records containing a unique chain ID and a chain number -- represented by a positive number. These unlinked records are not considered to be chained records.

The term "chained records" refers to two or more records linked to each other and assigned the same chain ID. Each chained record has a unique chain number within its chain.

In the example of chained records in the following Table, the Chain # Column shows the order of calling. The first number in the chain to be called starts with 1, the second number in the chain to be called starts with 2, and continues to increase.

The chain numbers can be in any order, but, by default, they are processed in ascending order. You

can change the order by using a filter for a call list in Genesys Administrator, by specifying a list of the record fields followed by ASC or DESC and separated by commas.

Example of Chained Records

Phone Type	Chain ID	Chain #
James Smith (Home)	19	1
James Smith (Work)	19	3
James Smith (Mobile)	19	2
Janet Green (Work)	20	3
Janet Green (Home)	20	1
Janet Green (Pager)	20	2

The Next-in-Chain actions are as follows:

- Next-in-Chain (immediately dialed)
- Next-in-Chain after (dialed after a specified interval)
- Next-in-Chain at specified date (dialed at a date set in the treatment configuration)

The following guidelines apply:

- 1. To use any of the next-in-chain actions in a treatment, a calling list must have chain_id and chain_n populated correctly.
- 2. When creating a treatment sequence, use the next-in-chain action as the last member in the treatment sequence.
- 3. When defining treatments for the chained records, treatments of the type Next-In-Chain are used more often than the Cycle and Redial type of treatments.

Generally, if an unsuccessful call result is received, you do not want to redial that number if you have another number to dial for the same contact. However, the final decision on what type of treatment to apply depends upon the goal and strategy of the specific outbound campaign.

Repeat the Treatment Cycle Through the Chain of Records

When applying treatments, Outbound Contact has the capability of cycling through the chain of records more than once; when the chain has ended, OCS can start dialing the chain again from the first record. Both of the following must be true:

- The last record in the chain is dialed and receives a negative call result.
- The current treatment to be applied is either Next-in-Chain, Next-in-Chain After, or Next-in-Chain at Specified Date.

If both of these are true, OCS can cycle from the last record in the chain to the first record in the chain, and then start dialing the chain again. The behavior to cycle through the chain more than once

Notes:

is optional. To enable this chain cycling, you must properly set the timing properties for any of the three Next-in-Chain treatments, as follows:

- Cycle Attempt -- Determines the total number of times that a chain will jump from the last to the first record in the chain. The default value for this property is 0, which means one cycle. The value 1 also means one cycle. Setting the value to be greater than 1 means that the cycling will occur for that specific number of times. The initial dialing of the chain is counted as the first cycle attempt.
- Interval -- Determines the time period to wait before beginning the cycle again. The interval measures the time between completing the last record in the chain and then jumping to begin again with the first record in the chain.
- Increment -- Determines the additional amount of minutes to add to the next interval, beyond the length of the previous interval.

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- The default behavior is one cycle. When a chain ends, it is updated in the Calling List and OCS stops processing that chain unless you have configured the system to repeat the cycle through the chain again.
- The Interval and Increment properties are not applicable to the Next-in-Chain at Specified Date treatment.
- For the Next-in-Chain After treatment, the Interval property specifies both the amount of time to wait before dialing the next record, and also, the time to wait before beginning the cycle again. The Increment property applies to the time interval before beginning the cycle again, but not to the time interval between records.
- When subsequent call results are different, OCS applies the number of cycle attempts from a previous treatment to a current treatment only if both treatments are either Next-in-Chain, Next-in-Chain After, or Next-in-Chain at Specified Date. Otherwise, OCS sets this number to the first cycle attempt.

For more information about the timing properties for these treatments, see the Using Timing Properties table.

Example of the Chain of Records Treatment Cycle Repetition

The following provides an example of the cycle behavior for the chain of records for a Next-in-Chain treatment. In this example, the calling list has a Next-in-Chain treatment for a No Answer call result, with the following configuration:

- Cycle Attempts: 4. The total number of times that the cycle through the chain occurs will be 4 times.
- Interval: 30. The time to wait before beginning the cycle again is set for 30 minutes. So, the amount of time between ending the last record in the chain and jumping to the first record in the chain will be

30 minutes.

• Increment: 20. The time period to add to the interval for each subsequent cycling will be 20 minutes.

The configurations in the example above will result in the following behavior:

- 1. OCS retrieves a chain consisting of three records and dials the first record in the chain. There is no answer. The treatment is: if there is no answer, dial the next record in the chain.
- 2. OCS dials the next record in the chain. There is no answer. The treatment is: if there is no answer, dial the next record in the chain.
- 3. OCS dials the third record in the chain. There is no answer. The treatment is: if there is no answer, dial the next record in the chain.

The chain has ended. The number of Cycle Attempts in our example is set to greater than 1, so OCS will wait for the specified time of 30 minutes (Interval value in our example), and then proceed.

- 1. After waiting 30 minutes; OCS will now jump to the first record in the chain, and repeat treatment steps for records in the chain if the call result is not changed.
- 2. For the next two cycles, the Increments between intervals will now take effect and they will increase between each cycle. After the second cycle, OCS will wait 50 minutes (Interval of 30 minutes + Increment of 20 minutes in our example) before jumping to the first record in the chain. After the third cycle, OCS will wait 70 minutes (Interval of 30 minutes + Increment of 20 minutes) before jumping to the first record in the chain.

Note:	The Next-in-Chain treatment must be the last treatment in the sequence. If the Next-in-Chain treatment is not the last treatment in the sequence, all treatments after the Next-in-Chain will be ignored.
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Rules for Update All Records in Chain

The Update all records in chain action can be used even if there are no chained records in a calling list. It does not have the same restrictions as the next-in-chain actions for the following reasons:

- 1. This action does not require that timing properties be set.
- 2. All records contain a chain ID and number even when they are not chained.

result Answering Connect/Transfe connected to age Campaign Group. all records in Apply to Record The Update all	t action can be used for the call Machine Detected in a er treatment only if AM calls are nts that belong to the OCS Otherwise, the treatment Update chain must be configured for the l action. records in chain action does er call results in the Connect/
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Timing Properties Used with Apply to Record Actions

Understanding timing properties is essential when creating treatments and applying them to Calling List objects. The following table shows which timing properties are required for each treatment action.

Using Timing Properties

Apply to Record Action	Cycle Attempt	Interval	Increment(minute	s DateTime
Assign To Group	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mark As Agent Error	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Next-in-Chain	RequiredSet the maximum number of passes through the chain: values 0 and 1 = one pass; the next record in the chain is dialed immediately	RequiredSet the time interval until the next pass through the chain, after the last record in the chain has been dialed.	RequiredSet the time interval for the subsequent chain passes	Not Applicable
Next-in-Chain after	RequiredSet the maximum number of passes through the chain: values 0 and 1 = one pass	RequiredSet the time interval until the next record in chain is dialed, and until the next pass through the chain, after the last record in the chain has been dialed.	RequiredSet the time interval for the subsequent chain passes	Not Applicable
Next-in-Chain at specified date	RequiredSet the maximum number of passes through the chain: values 0 and 1 = one pass	Not Applicable	Not Applicable	RequiredSet the date/time to dial the next record in chain
No Treatment	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Redial	RequiredSet the maximum number of retry attempts	RequiredSet the time interval until the first cycle attempt.	RequiredSet the time interval for subsequent cycle attempts.	Not Applicable
Reschedule	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Retry at specified date	Not Applicable	Not Applicable	Not Applicable	RequiredSet the date/time for the next attempt
Retry in	Not Applicable	RequiredSet the time interval until the next (only one) attempt	Not Applicable	Not Applicable
Update all records in chain	Not Applicable	Not Applicable	Not Applicable	Not Applicable

When OCS calculates the time for the next dial according to the treatment configuration, it is possible that the new calculated time is out of the "daily from" -- "daily till" boundaries of the record. If this happens, OCS adds an appropriate amount of time to the calculated time so that it falls within the boundaries.

Execute SQL Statement Action Type

The Execute SQL Statement action allows executing a specific pre-configured SQL statement when a certain call result is received. There are no limitations for the type or complexity of SQL statements. OCS uses its connection to the Calling List database table, from which the current dialing record originates, to execute the SQL statement. OCS also allows additional flexibility by supporting macro expressions that can be used to form SQL statements, for example, the Calling List name and fields of the record that is being processed can be replaced with macro expressions. OCS expands those macro expressions to the actual values before requesting the DBMS to execute the SQL statement.

Unlike other treatments that affect a chain of records (for example, if it is rescheduled for a later time or the treatment causes the next record of the chain to be dialed), this treatment does not affect the record or chain in any way. Instead, when the treatment is completed, it passes control to the next treatment (if one is configured). This enables you to configure the sequence of treatments, similar to Execute SQL Statement and Reschedule Chain to later time, for the same dialing attempt.

Provisioning

Treatment is configured by selecting the Execute SQL statement action from the list of Apply to Record actions in the Treatment configuration object. As for any other type of treatment, Call Result and Number in sequence treatment properties must be defined. The actual SQL statement to be executed upon receiving a specified call result is configured in the Annex tab of the Treatment configuration object. The section name where the SQL statement option is configured should be entered as default, OCServer, or configured with the specific name for the OCS Application object. The option itself is named sql and should contain the SQL statement to be executed by OCS. Similar to any other Treatment, this Treatment must be referenced in the Calling List configuration object to take effect for the specific calling list.

Execution

When OCS completes the execution of this treatment, it immediately passes control to the following treatment, if it is available. The following treatment is a treatment that is configured for the same Call Result value and has a property Number in sequence equal to (N + 1) where N is the Number in sequence property of the Execute SQL statement treatment.

Macro Expressions

The SQL statement that OCS executes for this treatment may contain macro expressions. Macro expressions are pre-defined words that start with the '\$' sign. OCS automatically expands these macro expressions to their values before the SQL statement is executed.

The following table summarizes macro expressions supported by OCS:

OCS Supported Macro Expressions

Macro	Expanded to	Туре	Example		
<pre>\$treat_name</pre>	The name of the current Treatment configuration object.	string	Update Treatments History SQL clause		
<pre>\$treat_dbid</pre>	The DBID of the current Treatment configuration object.	integer	101		
<pre>\$camp_group_dbid</pre>	The DBID of the Campaign Group configuration object to which the record being processed logically belongs.	integer	101		
<pre>\$camp_group_name</pre>	The name of the Campaign Group configuration object.	string	Campaign 1@Agent Group 1		
<pre>\$camp_name</pre>	The name of the Campaign configuration object to which the record logically belongs.	string	Campaign 1		
\$group_dbid	The DBID of the Group configuration object.	integer	101		
<pre>\$camp_dbid</pre>	The DBID of the Campaign configuration object.	integer	101		
\$group_name	The name of the Group configuration object.	string	Agent Group 1		
\$list_tbl_name	The name of the calling list database object (table name) from which the record was fetched.	string	calling_list_tbl		
<pre>\$list_name</pre>	The name of the Calling List configuration object to which the record logically belongs.	string	Calling List 1		
\$list_dbid	The DBID of the Calling List configuration object.	integer	101		
<pre>\$dial_filter_where</pre>	where clause of the dialing filter that is defined for the Calling List.	string	customer_code notin (1,2,6)		
<pre>\$dial_filter_order_by</pre>	order by clause of the dialing filter that is defined for the Calling List.	string	chain_id ASC, chain_n ASC		
<pre>\$<send_attribute></send_attribute></pre>	The value of the field of the current record for which send_attribute	string	Customer since 1980		

	is defined.		
Note:		Macro expressions of type enclosed in single quotes constants in the SQL state	if they are used as string

Examples

The treatment can be used for various purposes, for example to insert values into separate historical tables or to update Calling Lists with treatment-specific information. Consider the following examples of the SQL queries configured for execution by this treatment:

Example 1

insert into treatments_history (treatment_dbid, treatment_name, list_dbid, chain_id, chain_n, exec_time) values (\$treat_dbid, '\$treat_name', \$list_dbid, \$GSW_CHAIN_ID, \$GSW_CHAIN_N,'15:00:45')

After all macro expressions are expanded by OCS, this SQL statement will insert treatment application fact data into the separate treatments_history table in the same database where the current Calling List table resides. Notice, that the treatments_history table with proper structure must exist in the database or the execution will yield an error.

Example 2

• update \$list_tbl_name set treatment_appl = '\$treat_name' where chain_id = \$GSW_CHAIN_ID and chain_n = \$GSW_CHAIN_N and (\$dial_filter_where)

This query updates the current calling record in the Calling List table from which it originated. It sets a user-defined field treatment_appl to the name of the current treatment.

Note	:	Both examples use \$GSW_CHAIN_N macro. For this macro to be expanded to the value of the chain_n field of the record, the send_attribute option with the name GSW_CHAIN_N must be defined for the chain n field configuration object.
		the chain_h rieta configuration object.

A Word of Warning

Special care must be taken when SQL statements for the treatment are being defined. These SQL statements should not consume execution-time or put a heavy load on the DBMS. Remember that OCS uses the same DBMS for dialing records retrieval and update purposes. Therefore, database performance is a key factor in the performance of the whole dialing engine.

Additionally, extra care must be taken if the active Calling List is being updated by the Execute SQL statement treatment application (see Example 2). As a general rule, mandatory fields of the retrieved records must not be updated, as this might cause table-level locking and/or erroneous, repetitive dialing of the records that have just been dialed. For example, setting a record that could be identified by the clause, "where chain id = \$GSW CHAIN ID and chain n = \$GSW CHAIN N" to

the Ready state will cause this record to be dialed again which is usually not the desired behavior.

Send HTTP Request Action Type

Starting with release 8.1.519.01, OCS supports the ability to send an HTTP request with the JSON body to a remote Web/Application Server as an action of the Apply to Record treatment based on a Call Result or Disposition Code. For example, when a person has been contacted (Answer) and requested to not be contacted ever again, the person's phone number is added to the mandatory suppression list through, for example, the CX Contact interface.

You configure parameters of the HTTP request in the Annex tab of the Treatment object as described below. The Send HTTP Request action is configured using the *Delegate for processing* Apply to Record action type.

Send HTTP Request Parameters

Section	Option	Level	Values	Default	Comments	Example
OCServer	treatment- action-uri	Treatment object	The URI for sending a request	Empty string	All macro expressions are expanded in the same manner as for the Execute SQL Statement treatment. Only the http: schema is supported.	
OCServer	http- method	Treatment object	POST PUT GET DELETE	POST	No support for macro expressions.	
OCServer	http- headers	Treatment object	Exactly as specified in http-custom- headers	Empty string	All macro expressions are expanded in the same manner as for the Execute SQL Statement treatment. Note that the value of this option should be combined with the Application-level option	

Section	Option	Level	Values	Default	Comments	Example
					http- custom- headers, in case if it's present.	
OCServer	http-body	Treatment object	JSON string (and support for macro expressions)	Empty string	All macro expressions are expanded in the same manner as for the Execute SQL Statement treatment, especially record-level macro parameters, such as \$GSW_PHONE and \$GSW_CUSTOMER	{ "data": { "listid": 5711, "appendOnly": false, "fields": { "client_id": "\$GSW_CUSTOMER_ } } } { "data": { "listid": 5711, "appendOnly": true, "fields": { "device": "\$GSW_PHONE" } } }