

# NH Special Bundling

Version 2.0.15

Requires EchoVantage Version 3.25+

Release Date: August 12, 2022

## Document History

Date	Description	Author	Version
01/31/2020	Initial Release	Kathy Bunker	1.0
06/09/2021	Updates were made to use the latest Acorn interfaces. No changes to the custom functionality but requires reselecting the Acorns in Payers > Processing (NH Billing and NH Customize Charge).	Heather Sherwood	1.0.19
02/16/2022	Bug Fix for EV-3028, multiple service definitions were sometimes including services that are not part of the configured bundle definition.	Heather Sherwood	2.0.11
08/12/2022	Updated the Create Charges process to exclude the modifiers in the dbo.NHComponentModifiers table when the service Bill Code is H0004.	Heather Sherwood	2.0.15

## Overview

The NH Special Bundling portion of the Custom Billing Acorn addresses the need for special bundling rules for specific services. These special rules are triggered when Payers have the Acorn defined on their Processing page. Other services still use standard bundling.

## Installing the Acorn

The `install-nh-special-bundling-2.0.15.RELEASE.sql` inserts or updates the following three `dbo.AcornRegistration` records: NH Billing, NH Customize Charge, and NH Doc On Site. (The NH Doc On Site 837P customization is covered in separate Release Notes.) After installation is complete, the Acorn version displays in the *Help > About* page under the ACORNS section.

In addition, the acorn creates the following tables if they do not already exist.

- **dbo.NHSpecialBundles** - Contains the id of the acorn-specific bundled service definitions and the id of the individual detail service definitions.
- **dbo.NHComponentModifiers** - Maps Eligibility Cost Center and Program Component Codes to modifiers and positions.
- **dbo.NHBundleComponentCodes** - Associates specific Program component codes with a NHSpecialBundle id.

After the acorn is installed, a custom data population script is run to populate these new tables.

## Configuring the Application

Navigate to *Configuration > Services/Payers > Payers > Processing*. Locate the 'Acorns' field and select both the *NH Billing* and the *NH Customize Charge* values in the drop-down listing for each Payer that requires the special bundling. The acorn must be defined for each applicable Payer to trigger the special bundling logic during Charge creation.

The screenshot shows the 'Processing' configuration page for a Payer. The 'Acorns' field is highlighted with a red arrow, showing a dropdown menu with 'NH Billing' and 'NH Customize Charge' selected. The 'Allow Service Bundling' checkbox is checked.

- Select the *Allow Service Bundling* checkbox for the applicable Payer(s). If this box is not checked, no bundling, special or standard, will occur.

- Locate the 'Acorns' field and select both the *NH Billing* and the *NH Customize Charge* values in the drop-down listing for each Payer that requires the special bundling. The acorn must be defined for each applicable Payer to trigger the special bundling logic during Charge creation.

## Processing Services

### Determining the Bundle

When this acorn is configured for a given Payer, the acorn overrides standard bundling logic during Service processing.

- The Acorn first checks to see if multiple services exist and if they can be bundled under a multi-service bundle.
- Then the Acorn checks if the Program codes of the Services fall into a bundle with a specific Program code.
- Otherwise, the Acorn uses the individual Service Definitions and the sum of the Service durations to find the appropriate bundle.
- If the detail Services do not fall into one of the identified bundles, the Services produce an error.

### Determining the Modifiers

Once the NH Special Bundle is determined, modifiers are processed into the dbo.ChargeModifiers table during Charge creation based on the mapping in the dbo.NHComponentModifiers table.

- Program is assumed to be the Component in Position 1.
- Eligibility Cost Center is assumed to be the Component in Position 6.



There is one exception to the modifier reporting. When the BillCode for the bundle is H0004, none of the modifiers from the dbo.NHComponentModifiers are reported for that bundle. However, any Procedure or Staff Modifiers defined in the Service Definition's Rate for the Payer being processed will report if the criteria is met.

## Examples

### NH Special Bundle with Eligibility Modifiers

A test client has the following services which qualify for a multi-service NH Special Bundle.

<input type="checkbox"/>	Date	Time	Status	Client	Staff	Service Code	Program	Service Locat...	Activity
<input type="checkbox"/>	07/15/2022	9:00 AM	Ready	067963 Client, Test	echocliff WALLINGFORD, CLIFF	FSS FAM	ADT	CEN	F5FM
<input type="checkbox"/>	07/15/2022	9:45 AM	Ready	067963 Client, Test	echocliff WALLINGFORD, CLIFF	FSS MED	ADT	CEN	FSMED
<input type="checkbox"/>	07/15/2022	10:30 AM	Ready	067963 Client, Test	echocliff WALLINGFORD, CLIFF	FSTBI_IND	ADT	CEN	FSTBI

When these three services are processed in the same *Fiscal Overview > Create Charges* job, the bundle charge is created and modifiers for the service's Eligibility Cost Center are attached.

job Details - 08/05/2022 heather.sherwood - Multiservice Bundle									
Start Date	Service Date	Client	Duration/Units	Payer	Procedure Code	Billed Units	Charge	Balance	Message
End Date	07/15/2022	067963 Client, Test	30 min	BHMCD_WELLENSE	H2015 - HW, U5	6	\$ 180.00	\$ 162.30	
Client	07/15/2022	067963 Client, Test	30 min				NO CHARGE		
Start typing to search...	07/15/2022	067963 Client, Test	30 min				NO CHARGE		

- The BillCode for the bundle is H2015.
- The Eligibility Cost Center component code was LU for all services which results in the following modifiers.
  - HW in position 1
  - U5 in position 2
- The ADT Program was not mapped to a modifier so a modifier based on the Program is not reported.

### NH Special Bundle with Eligibility and Program Modifiers

In this example, the test client has the following two services which qualify for a single service, daily bundle.

<input type="checkbox"/>	Date	Time	Status	Client	Staff	Service Code	Program	Location	Activity
<input type="checkbox"/>	08/03/2022	9:00 AM	Ready	001046 Test, Sally	balbers ALBERS, BENJAMIN	IROSFAM	ACT	Newport	IROSFAM
<input type="checkbox"/>	08/01/2022	9:00 AM	Ready	001046 Test, Sally	balbers ALBERS, BENJAMIN	IROSFAM	ACT	Newport	IROSFAM

The Program component is ACT and the Eligibility/Certification component is SMI for each service. The following image highlights the modifiers mapped to these Program and Eligibility/Certification components.

	Component	Name	Modifier	Position
1	20191212081011542B8565FF6985D44549FA	N	HE	1
2	20191212081011542B8565FF6985D44549FA	SPMI	HW	1
3	20191212081011542B8565FF6985D44549FA	SPMI	U1	2
4	20191212081011542B8565FF6985D44549FA	SMI	HW	1
5	20191212081011542B8565FF6985D44549FA	SMI	U2	2
6	20191212081011542B8565FF6985D44549FA	LU	HW	1
7	20191212081011542B8565FF6985D44549FA	LU	U5	1
8	20191212081011542B8565FF6985D44549FA	SED	HW	1
9	20191212081011542B8565FF6985D44549FA	SED	U6	1
10	20191212081011542B8565FF6985D44549FA	MASED	HW	1
11	20191212081011542B8565FF6985D44549FA	MASED	U7	2
12	20170113061714483D2D26FF8822C4997A7C	ACT	HK	3
13	20170113061714483D2D26FF8822C4997A7C	SUD	HK	3

When these two services are processed in *Fiscal Overview > Create Charges*, two bundles are created (because the services were provided on different days) and modifiers for the service's Eligibility/Certification and Program components codes are attached.

Service Date	Client	Duration/Units	Payer	Procedure Code	Billed Units	Charge	Balance	Message
08/03/2022	001046 Test, Sally	45 min	 Wellcare	T1027 - HW, U2, HK	3	\$ 90.00	\$ 90.00	
08/01/2022	001046 Test, Sally	30 min	 Wellcare	T1027 - HW, U2, HK	2	\$ 60.00	\$ 60.00	

- The BillCode for the bundle is T1027.
- The Eligibility Cost Center component code was SMI for all services and the Program component codes was ACT for all services which results in the following modifiers.
  - HW in position 1
  - U2 in position 2
  - HK in position 3 (Program)

#### NH Component Modifiers Suppressed When BillCode is H0004

The test client in this example received the following three services which qualify for NH Special Bundle - BNDLSUD.

<input type="checkbox"/>	Date	Time	Status	Client	Staff	Service Code	Program	Location	Activity
<input type="checkbox"/>	07/18/2022	9:00 AM	Ready	001046 Test, Sally	balbers ALBERS, BENJAMIN	INDIVSUDU3	SUD	ClmtSUD	INDIV
<input type="checkbox"/>	07/18/2022	2:00 PM	Ready	001046 Test, Sally	mbaker1 BAKER, MELISSA	INDIVSUDU3	SUD	Lebanon	INDIV
<input type="checkbox"/>	07/18/2022	3:00 PM	Ready	001046 Test, Sally	balbers ALBERS, BENJAMIN	INDIVSUDU1	SUD	ClmtSUD	INDIV

The Program component is SUD and the Eligibility/Certification component is SMI for each of the three services. The following image highlights the modifiers mapped to these Program and Eligibility/Certification components.

	Component	Name	Modifier	Position
1	20191212081011542B8565FF6985D44549FA	N	HE	1
2	20191212081011542B8565FF6985D44549FA	SPMI	HW	1
3	20191212081011542B8565FF6985D44549FA	SPMI	U1	2
4	20191212081011542B8565FF6985D44549FA	SMI	HW	1
5	20191212081011542B8565FF6985D44549FA	SMI	U2	2
6	20191212081011542B8565FF6985D44549FA	LU	HW	1
7	20191212081011542B8565FF6985D44549FA	LU	U5	1
8	20191212081011542B8565FF6985D44549FA	SED	HW	1
9	20191212081011542B8565FF6985D44549FA	SED	U6	1
10	20191212081011542B8565FF6985D44549FA	MASED	HW	1
11	20191212081011542B8565FF6985D44549FA	MASED	U7	2
12	20170113061714483D2D26FF8822C4997A7C	ACT	HK	3
13	20170113061714483D2D26FF8822C4997A7C	SUD	HK	3

When these three services are processed, the BNDLSUD is created but none of the modifiers from the NHComponentCodeModifiers table are reported because the BillCode is H0004.

Service Date	Client	Duration/Units	Payer	Procedure Code	Billed Units	Charge	Balance	Message
07/18/2022	001046 Test, Sally	60 min	 Wellcare	H0004	10	\$ 300.00	\$ 300.00	
07/18/2022	001046 Test, Sally	60 min				NO CHARGE		
07/18/2022	001046 Test, Sally	30 min				NO CHARGE		

If the bundled Service Definition, BNDLSUD in the example, has any Procedure modifiers specified, those are respected and will report if the requirement is met, i.e., Always or Defined Filter.