Original A-Number

OPERATIONAL DIRECTIONS

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1 GENERAL

This document gives instructions on how to initiate, change, or remove the Original A-Number feature. For information on the feature, see the description for *ORIGINAL A-NUMBER*.

1.1 GLOSSARY AND ACRONYMS

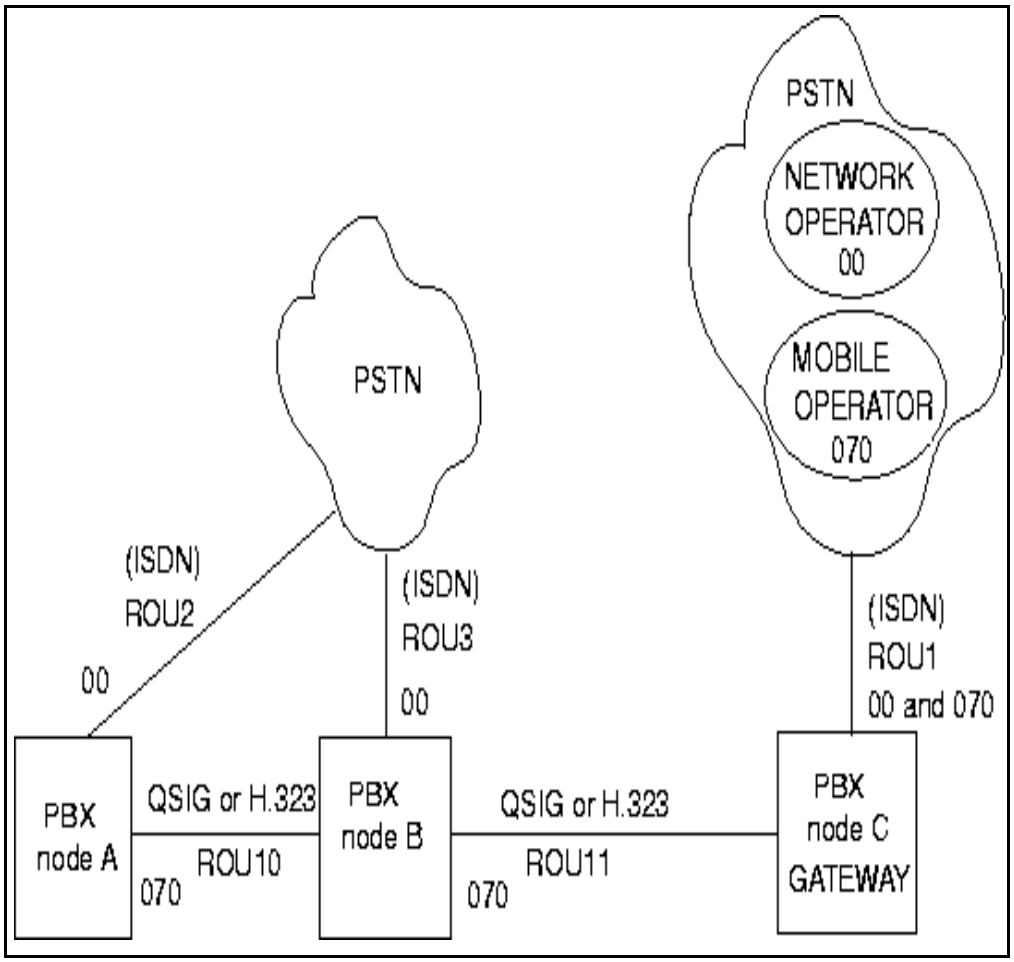
For a complete list of abbreviations and glossary, see the description for *ACRONYMS, ABBREVIATIONS AND GLOSSARY*.

2 CONFIGUATION EXAMPLE

This section gives an example of a configuration where three PBX systems are inter-connected with ISDN QSIG.

The following conditions apply:

- All nodes are connected to the PSTN. Node C is connected to a public/mobile network.
- A-party number is received from the PSTN.
- The user of the private network has an agreement with a mobile network operator that allows him to send out received A-number to the mobile network. All nodes are situated in different local areas.



For ADC parameter values, see parameter description for *ROUTE DATA*.

Node A

An incoming public call to an External follow-me diverted extension or a Personal number list with deflection to a public subscriber will be redirected through node B. The A-party information will be sent through the network and out to the mobile network, keeping the number information.

The route access code 070 states the external destination towards the mobile network. The data for the destination must be set to support Original A-number (ADC D_{22} = 1). Since the gateway is in node C, informative signaling must be used (ADC D_5 = 2), proprietary UUI signaling is used for the private network.

The ordinary public destination for node A is via ROU2 with route access code 00.

Local area code is 030, RONDI:ROU=10,EXNOPU=2-030;

Initiate a public destination to Node B with A-number transmission

For public destinations via node B, the following data should be set. Supplementary services using UUI (allow informative signaling..., D_5 = 2) and the Original A-number should be sent... (D_{22} = 1) using the destination's TON (D_{23} = 0), enhanced sent A-number conversion should be used. (D_{24} = 1).
RODDI:DEST=070,ROU=10,SRT=1,ADC=0225 **2** 0000000025000200 **101** 00;

Initiate a public destination in node A without A-number transmission

RODDI:DEST=00,ROU=2,SRT=3,ADC=0225 **0** 0000000025000200 **001** 00;

Node B

An incoming public call to an External follow-me diverted extension or a Personal number deflected to a public subscriber will be sent out to the public/mobile network, with A-number information.

Incoming call from the private network which has been External follow-me diverted or has Personal number list activated to public will be sent out to the public/mobile network, keeping the number information providing it is allowed to be sent.

An External follow-me or Personal number list call is executed in node A. The A-party information will be sent through node B to node C via the private network and out to the public/mobile network, keeping the number information.

The route access code 070 states the external destination towards the mobile network. The data for the destination must be set to support Original A-number (ADC D_{22} = 1). Since node B is a transit exchange, informative signaling should be used (ADC D_5 = 2) since proprietary UUI signaling is used for the private network.

The ordinary public destination for node B is via ROU3 with route access code 00.

Local area code is 040, RONDI:ROU=11,EXNOPU=2-040;

Initiate a public destination to Node C with A-number transmission

For public destinations via node C, the following data should be set. Supplementary services using UUI (allow informative signaling..., D_5 = 2) and the Original A-number should be sent... (D_{22} = 1) using the destination's type of number, TON (D_{23} = 0), enhanced sent A-number conversion should be used. (D_{24} = 1).
RODDI:DEST=070,ROU=11,SRT=1,ADC=0225 **2** 0000000025000200 **101** 00;

Initiate a public destination in node B without A-number transmission

RODDI:DEST=00,ROU=3,SRT=3,ADC=0225 **0** 0000000025000200 **001** 00;

Node C

An incoming public call to an External follow-me diverted or Personal number deflected to a public subscriber will be sent out to the public/mobile network, with A-number information.

An incoming call from the private network which has been External follow-me diverted or deflected to a public subscriber will be sent out to the public/mobile network, keeping the number information providing it is allowed to be sent.

The route access code 070 states the external destination towards the mobile network. The data for the destination must be set to support Original A-number (ADC D_{22} =1). Since node C is a gateway exchange, no supplementary services should be used (ADC D_5 = 0).

The ordinary public destination for node C is via ROU1 with route access code 00.

Local area code is 050, RONDI:ROU=1,EXNOPU=2-050;

Initiate a public destination in Node C with A-number transmission

For public destinations to the Mobile operator, the following data should be set. Supplementary services using UUI (not allowed, D_5 = 0) and the Original A-number should be sent... (D_{22} = 1) using the destination's type of number, TON (D_{23} = 0), enhanced sent A-number conversion should be used. (D_{24} = 1).
RODDI:DEST=070,ROU=1,SRT=1,ADC=0225 **0** 0000000025000200 **101** 00;

Initiate a public destination in node C without A-number transmission

For public destinations to the Network operator, the following data should be set. Supplementary services using UUI (not allowed, D_5 = 0) and Diverted party number should be sent... (D_{22} = 0) using the destination's type of number, TON (D_{23} = 0), enhanced sent A-number conversion should be used. (D_{24} = 1).
RODDI:DEST=00,ROU=1,SRT=3,ADC=0225 **0** 0000000025000200 **001** 00;

3 PREREQUISITES

Permission from the network operator to send received A-party number information and an agreement on how to charge the calls from the private network.

4 TOOLS

I/O terminal

5 PROCEDURE

The following work flow should be used at initiation of the Original A-number feature:

1. Initiate the route and assign it to the equipment positions according to the operational directions for *ROUTE DATA*.
2. Determine if the destination needs to be set allowing informative UUI signaling.
3. Initiate a route access code for the route, see the description of the ADC parameter in the parameter description for *ROUTE DATA*.

4. Initiate public and private (if applicable) numbering data for Route, or public exchange number per LIM, according to operational directions for *ROUTE DATA*.

6 EXECUTION

6.1 PBX CONFIGURATION

General

This procedure applies to all PBX configurations.

See scenarios 1 - 3.

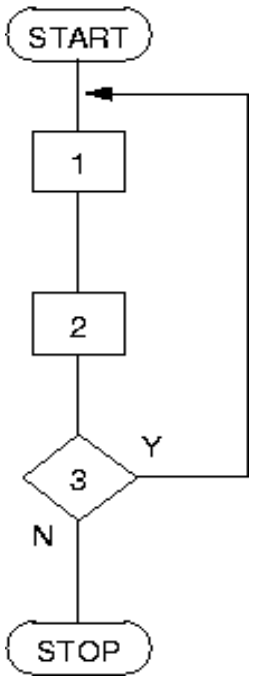
Prerequisites

I/O terminal

Initiated external number series

Execution

Key the command *RODDI* to initiate the external destinations with/without the Original A-number feature . Determine if the destination needs to be set to allow informative UUI signaling, that is, an External follow-me diverted or a Personal number deflected call is to be routed over the private network to the public/mobile network. When proprietary UUI signaling is used in the ISDN QSIG network, informative UUI signaling should be used to signal the diverted/deflect information forward to the gateway PINX.

		Measure/Question	Observation/Comment
Flow 			
	1	Key the command *RODDI* .	See the command description for *ROUTE DATA*.
	2	Key the command *RODDP* .	Verify the result.
	3	Are there more external destinations to initiate?	

6.2 ALTERATION OF ORIGINAL A-NUMBER

General

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Prerequisites

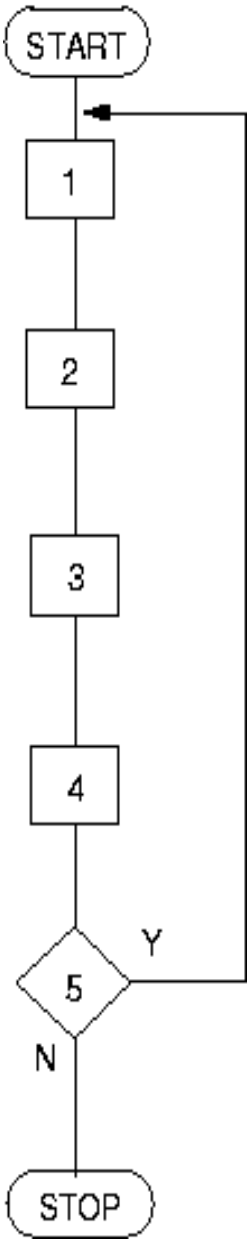
I/O terminal

Initiated external destination/destinations.

Execution

Key the command *RODDE* to remove the external destination/destination.

Key the command *RODDI* to initiate the external destinations with/without the original A-number feature.

		Measure/Question	Observation/Comment
Flow  			
	1	Key the command *RODDE* .	Remove external destinations.
	2	Key the command *RODDP* .	Verify the result.
	3	Key the command *RODDI* .	See the command description for *ROUTE DATA*.
	4	Key the command *RODDP* .	Verify the result.
	5	Are there more external destinations to change?	

6.3 REMOVAL OF ORIGINAL A-NUMBER

General

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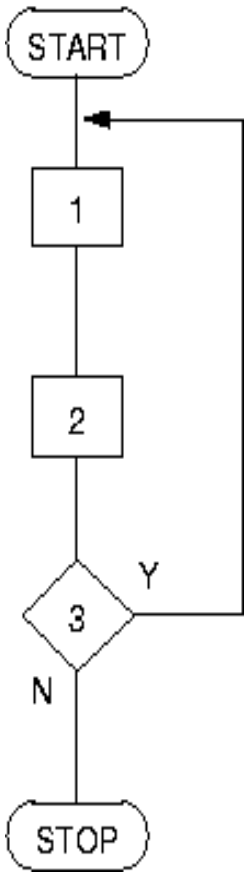
Prerequisites

I/O terminal

Initiated external destinations.

Execution

Key the command *RODDE* to remove an external destination .

		Measure/Question	Observation/Comment
Flow 			
	1	Key the command *RODDE* .	
	2	Key the command *RODDP* .	Verify the result.
	3	Are there more external destinations to remove?	

7 TERMINATION

If exchange data have been altered a dump to backup media must be done.