



**How To Configure  
VoIP Survival  
with  
Broadsoft Remote Survival**

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## **1 Introduction**

The Ingate can be made to monitor SIP domains to ensure that the servers managing the domains really are reachable. If a SIP domain server is unreachable, the Ingate will enter Survival mode, when it acts as a local registrar for the domain. This could be useful when you have a local office with an Ingate and all users register on a server at the main office.

When in Survival mode, the Ingate acts as a SIP registrar for the domain. It can also redirect SIP calls to a PSTN gateway, if the callee looks like a phone number (that is, if the URI user part contains nothing but digits, +, -, # and \*).

When the VoIP Survival feature is enabled the Ingate will also add an additional header in the SIP Register message causing the server to provide additional information about the user, e.g. aliases or extensions for the user. This means that extension dialing works between local users even though communication with the main server is lost.

This document describes how VoIP Survival is configured with a BroadWorks server.

## **2 Network Setup**

Clients are located behind an Ingate Firewall or Ingate SIParator with the Registrar function located outside of the Ingate, e.g. on a Main Office or in a hosted solution.

## **3 Configuration**

All needed configuration is done on one page



A new Ingate SIParator version exists. Get the upgrade [here](#).

Basic Signaling Encryption Media Encryption Interoperability Sessions and Media Remote SIP Connectivity VoIP Survival VoIP Survival Status

**VoIP Survival** (Help)

Enable VoIP Survival  
 Disable VoIP Survival

**Server Check Interval**  
 seconds

**Domains To Monitor**

Domain Name	Method	Delete Row
as.iop1.broadwork	Broadsoft	<input type="checkbox"/>

rows.

**Registrations**

Re-REGISTER interval during survival mode: Time to store subscriber data:

seconds  days

**PSTN Gateways** (Help)

Domain/IP Address	Delete Row
10.100.0.11	<input type="checkbox"/>

rows.

**PSTN Numbers** (Help)

Local area code:

Maximum length of local phone numbers (not including area code):  digits

### 3.1 Status

Status information. Notice the additional user information provided from Broadworks in the Survival Aliases column.



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**Survival Domain Status**

Monitored Domain	Status
as.iop1.broadworks.net	Server works

**Survival Subscribers**

User	Survival Aliases
2413332941@as.iop1.broadworks.net	2941, sip:IngateUser1@as.iop1.broadworks.net, 2413332941
2413332942@as.iop1.broadworks.net	2942, sip:IngateUser2@as.iop1.broadworks.net, 2413332942
2413332944@as.iop1.broadworks.net	2944, sip:IngateUser4@as.iop1.broadworks.net, 2413332944

## 4 Log example

Below follows a capture from a Registration with VoIP Survival enabled.

From UA to Ingate

```
REGISTER sip:as.iop1.broadworks.net SIP/2.0
```

Via: SIP/2.0/UDP 10.100.0.71:2055;branch=z9hG4bK-0u0r5cn5j9qn;received=10.100.0.71;rport=2055  
From: "IngateUser2" <sip:2413332942@as.iopl.broadworks.net>;tag=9q2qwrw6ba  
To: "IngateUser2" <sip:2413332942@as.iopl.broadworks.net>  
Call-ID: 3c2b7cb554c8-rzujpi0r4v0x  
CSeq: 868 REGISTER  
Max-Forwards: 70  
Contact: <sip:2413332942@10.100.0.71:2055;line=no72tu20>;reg-id=1;q=1.0;+sip.instance="urn:uuid:3257274a-6727-4b7d-9c9d-90e0854b27b9";audio;mobility="fixed";duplex="full";description="snom320";actor="principal";events="dialog";methods="INVITE,ACK,CANCEL,BYE,REFER,OPTIONS,NOTIFY,SUBSCRIBE,PRACK,MESSAGE,INFO"  
User-Agent: snom320/7.3.14  
Supported: gruu  
Allow-Events: dialog  
X-Real-IP: 10.100.0.71  
Expires: 3600  
Content-Length: 0

## From Ingate to the BroadWorks server (notice that Ingate added "Allow-Events: BroadWorksSubscriberData")

REGISTER sip:as.iopl.broadworks.net SIP/2.0  
Via: SIP/2.0/UDP 88.131.69.205:5060;branch=z9hG4bKbc30e2083fe7e35577463b3d0f9d9a06.0  
Via: SIP/2.0/UDP 88.131.69.205:2055;rport=2055;branch=z9hG4bK-0u0r5cn5j9qn.aMCEecZ+zSvcUntckVZYaA\_\_  
From: "IngateUser2" <sip:2413332942@as.iopl.broadworks.net>;tag=9q2qwrw6ba  
To: "IngateUser2" <sip:2413332942@as.iopl.broadworks.net>  
Call-ID: 3c2b7cb554c8-rzujpi0r4v0x  
CSeq: 868 REGISTER  
Max-Forwards: 69  
Contact: <sip:zxhsa000h9HF1j1Y6cRf@88.131.69.205>;expires=3600;reg-id=1;q=1.0;+sip.instance="urn:uuid:3257274a-6727-4b7d-9c9d-90e0854b27b9";audio;mobility="fixed";duplex="full";description="snom320";actor="principal";events="dialog";methods="INVITE,ACK,CANCEL,BYE,REFER,OPTIONS,NOTIFY,SUBSCRIBE,PRACK,MESSAGE,INFO"  
User-Agent: snom320/7.3.14  
Supported: gruu  
Allow-Events: dialog, BroadWorksSubscriberData  
X-Real-IP: 10.100.0.71  
Expires: 3600  
Content-Length: 0

## From BroadWorks server to Ingate (notice Subscriber data from BroadWorks)

SIP/2.0 200 OK  
Via: SIP/2.0/UDP  
88.131.69.205:5060;branch=z9hG4bKbc30e2083fe7e35577463b3d0f9d9a06.0,SIP/2.0/UDP  
88.131.69.205:2055;branch=z9hG4bK-0u0r5cn5j9qn.aMCEecZ+zSvcUntckVZYaA\_\_ ;rport=2055  
From: "IngateUser2" <sip:2413332942@as.iopl.broadworks.net>;tag=9q2qwrw6ba  
To: "IngateUser2" <sip:2413332942@as.iopl.broadworks.net>;tag=638037332-1248853483201  
Call-ID: 3c2b7cb554c8-rzujpi0r4v0x  
CSeq: 868 REGISTER  
Contact: <sip:zxhsa000h9HF1j1Y6cRf@88.131.69.205>;q=1;expires=3599  
Allow-Events: call-info, line-seize, dialog, message-summary, as-feature-event  
Content-Type: application/BroadsoftDocument+xml  
Content-Length: 303  
  
<?xml version="1.0" encoding="utf-8"?>  
< subscriberData  
version="1.0"><phoneNumbers><phoneNumber>2413332942</phoneNumber></phoneNumbers><aliases><alias>IngateUser2@as.iopl.broadworks.net</alias></aliases><extensions><extension>942</extension></extensions></BroadsoftDocument>

## From Ingate to UA

SIP/2.0 200 OK  
Via: SIP/2.0/UDP 10.100.0.71:2055;rport=2055;branch=z9hG4bK-0u0r5cn5j9qn;received=10.100.0.71

From:"IngateUser2"<sip:2413332942@as.iopl.broadworks.net>;tag=9q2qwrw6ba  
To:"IngateUser2"<sip:2413332942@as.iopl.broadworks.net>;tag=638037332-1248853483201  
Call-ID:3c2b7cb554c8-rzujpi0r4v0x  
CSeq:868 REGISTER  
Contact: <sip:2413332942@10.100.0.71:2055;line=no72tu20>;q=1;expires=3599  
Allow-Events:call-info,line-seize,dialog,message-summary,as-feature-event  
Content-Length: 0