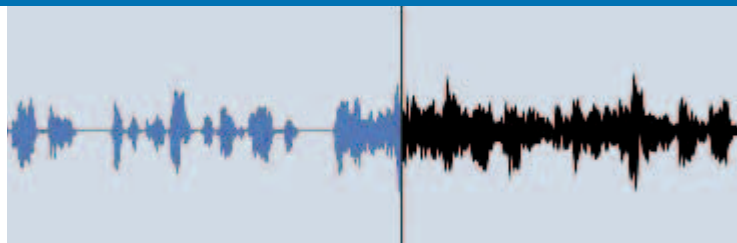


Revision-safe Archiving of Audio Channels (RSSA)

SYSTEM DESCRIPTION



Documentation of IP based voice communication

There is a requirement to document operator interaction in many control centres in such a way that archived data may be used as evidence in court after a damage event.

The RSSA will filter voice channels, which are encoded in an IP stream, reorganise the IP packages to their originator channel, and archive them revision-safe in a proprietary format. Later editing or deletion of archives is not intended, and will be documented even in case of an external breach of data integrity on file and file system levels.

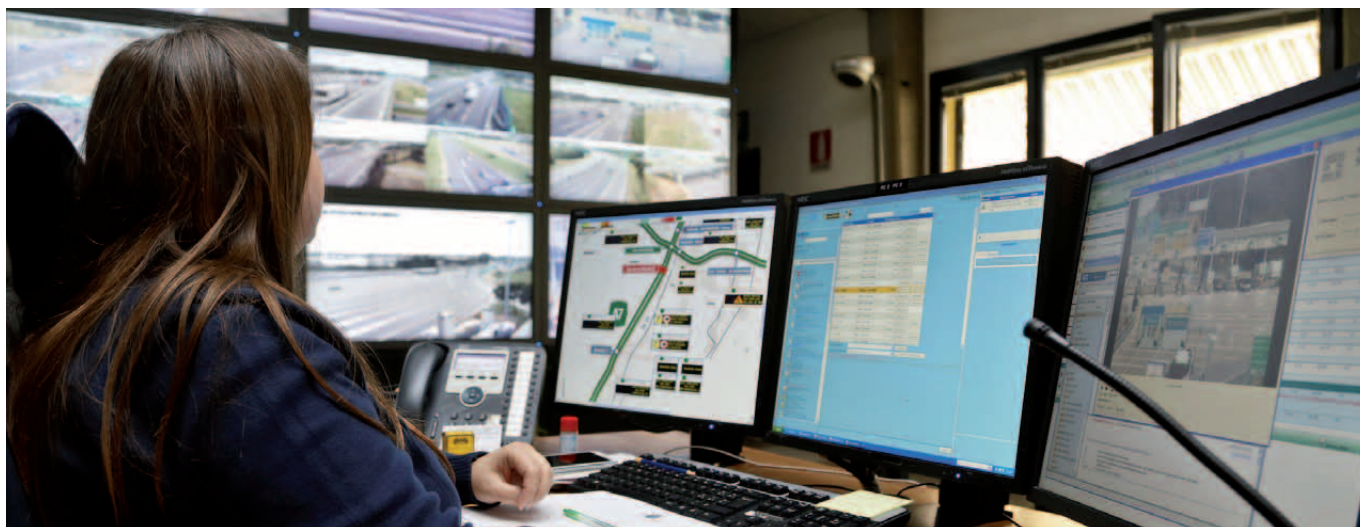
The operating entity bears responsibility for physical data availability. This can be increased by redundant data storage, e.g. in a RAID system.

As a prerequisite, the selected router needs to provide a standard mirror port, where the SIP (RFC 3261) and RTP (RFC 3550) based communication is directly forwarded to the RSSA archiving.

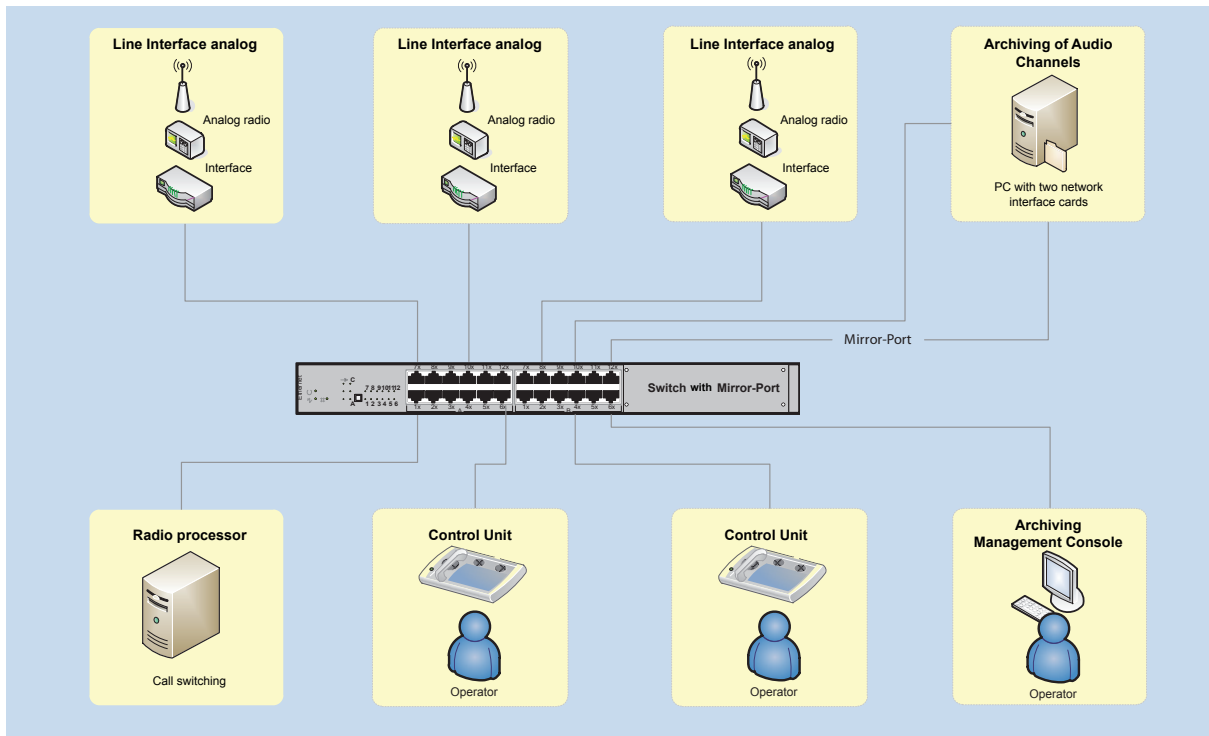
RSSA is especially designed for radio operator interfaces, and supports both PTT and squelch analysis. Other features can be implemented on customer's demand.

FEATURES

- IP address based matching of IP packets with voice channels
- Saving IP packets of selected channels, low-level, starting and ending automatically with user activity
- Decoding of ATIS headers
- Adding meta data and time stamps
- Revision-safe by applying checksums on file and filesystem levels
- Web browser frontend with direct audio output



Selection of archived data, choice of relevant voice channels



System overview of RSSA

Aufnahmen

Name	Startzeit	Stopzeit	Dauer (Sek.)	ATIS-Kennung	MDS Checksumme
<input type="checkbox"/> FST_MESSE	16.11.2016 07:52:23	16.11.2016 07:52:33	9	9211011234	162e912c66252028ae23c0c7b...
<input type="checkbox"/> FST_MESSE	16.11.2016 07:51:15	16.11.2016 07:51:52	36	9211011234	11d99aa24b261206ea171d37f...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:18:02	15.11.2016 12:18:12	9	9211011234	3d8dd06e0ae8e03dc473a1af...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:16:54	15.11.2016 12:17:32	37	9211011234	a1da8ec644a01821226396829...
<input type="checkbox"/> SPAN_MESSE	15.11.2016 12:16:28	15.11.2016 12:17:59	90	NULL	6c5e8f2933cda8fd02d90faa3...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:16:09	15.11.2016 12:16:23	14	9211124711	aa56f34fba48f03def5b20bba...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:15:28	15.11.2016 12:15:38	9	9211011234	4607f92bd0e4ddbae534fb8e9...
<input type="checkbox"/> SPAN_MESSE	15.11.2016 12:14:58	15.11.2016 12:16:28	91	NULL	645b6f608e213696246aa4976...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:14:20	15.11.2016 12:14:57	36	9211011234	c3e98a076e512600c92c2e91...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:13:35	15.11.2016 12:13:49	14	9211124711	76f7135fba482e2b5d7077c63...
<input type="checkbox"/> SPAN_MESSE	15.11.2016 12:13:28	15.11.2016 12:14:58	90	NULL	063b6bd5ebec8dde3034c188...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:12:54	15.11.2016 12:13:04	10	9211011234	a542b001367440cf13312bde...
<input type="checkbox"/> SPAN_MESSE	15.11.2016 12:11:58	15.11.2016 12:13:28	91	NULL	e55226ae5fd52a0e431d3d769...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:11:47	15.11.2016 12:12:23	36	9211011234	136f0a6f2d0838c2810d4d64...
<input type="checkbox"/> FST_MESSE	15.11.2016 12:11:01	15.11.2016 12:11:15	14	9211124711	e4b294b79315161bc5ee78e6...

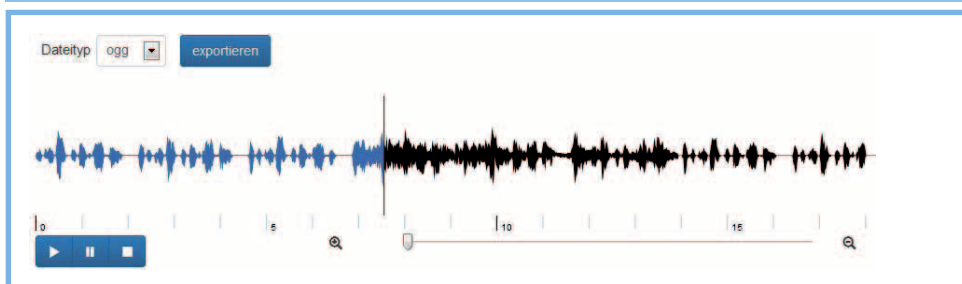
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ATIS headers

The RSSA frontend provides for

- choice of relevant operator interfaces;
- selection of archived data, and replay on any standard audio player software;
- export of archived files;
- RSSA system status review.



Archived data packets and audio player

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