ST★RCASTER®
a clear voice for aviation

D-ATIS

For Air Traffic Controllers who need a reliable method of generating ATIS broadcasts that pilots can easily understand

ST★RCASTER® D-ATIS is designed for air traffic controllers and managers who need a reliable method of generating ATIS broadcasts that pilots can easily understand. StarCaster's ready access to key information reduces disruption to the controller's routine while minimizing the risk of human error.

StarCaster D-ATIS is a service-oriented broadcasting solution that can be deployed as a standalone tower system, a hosted service for multiple towers, or a cloud-based subscription service. It utilizes web-based technologies to deliver a feature-rich HMI to both operational and technical users accessing the system via a common web-browser from networked devices.
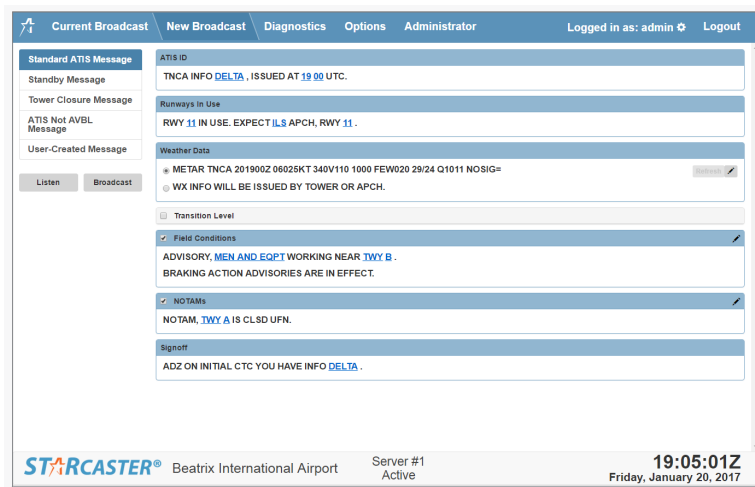
Features

- Automatically receives/processes weather information from AWOS, AFTN/AMHS.

- Combines weather information with airport operational data, field conditions and NOTAMs to produce an ATIS message in as little as 30 seconds.

- Exclusive Text-to-Speech (TTS) technology generates the most natural sounding voice with unrivalled clarity.

- Produces ATIS broadcasts in English, French, Portuguese and Spanish with other languages available upon request.

- SNMP ready/capable.

- Supports ATIS voice broadcasts over VHF radio using Analog and/or ED-137 compliant VoIP.

- Simultaneously transmits the D-ATIS message to ACARS-equipped aircraft through a datalink service provider (ARINC/SITA).

- Automatically logs received data, broadcast content (textual & audio), and user actions.

- Can be deployed as a standalone system for a single tower, a hosted solution for multiple or remote towers, or a cloud-based service over secure internet.

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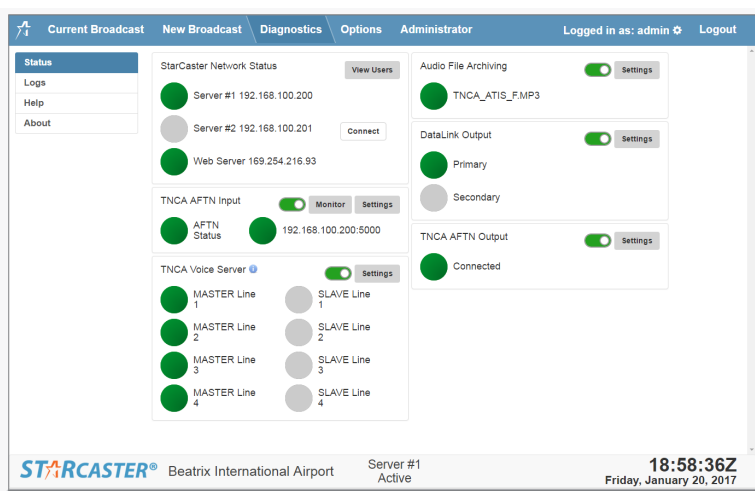### Quality that speaks for itself

www.speechtech.com

User Experience

- Displays current ATIS in a concise format using graphical diagrams to present wind direction and runway information.

- Automatically processes new weather data (METAR/SPECI or MET Report/Specials) received from the AWOS or AMHS/AFTN.

- Validates all weather data and provides the tools for manual entry/correction.

- Quickly allows the user to select additional content such as runways in use, approach types, field conditions, NOTAMs & advisories and free text.

- Supports manual recording of a portion or the whole of the ATIS broadcast.

- Pre-defined fixed messages allow the user to quickly select common broadcasts for events such as tower closures, emergency situations, etc. and append updated weather data, field conditions and NOTAMs.

- Can operate in "Automatic" mode with no user intervention required, or "Monitor" mode where the user must first listen to the message before choosing to broadcast.

Control & Monitoring

- Centralizes critical diagnostic data and provides real-time status of system components and external interfaces through the user interface or via SNMP.

- Allows for inline monitoring of the weather data feed and audio/datalink outputs.

- Provides administrative access to fully manage system configuration through the user interface.

- The high level of configurability allows the system to adapt to new requirements and changes in the operational environment.

- Extensive logging of system transactions, user actions, events, errors, alarms and ATIS broadcasts (audio and text) supports maintenance personnel and statistical reporting.
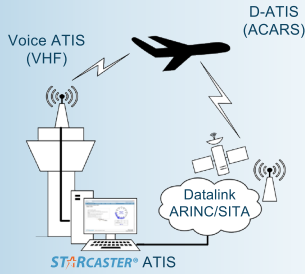
ST⭑RCASTER® is a **Natural Voice Text-to-Speech** system that provides the controller with a way to easily create clear and consistent broadcasts.

"Based on our experience over the last eight years, our ST⭑RCASTER® ATIS system has the best MTBF (mean time between failures) ratio of all aviation equipment in use at Keflavik Airport."
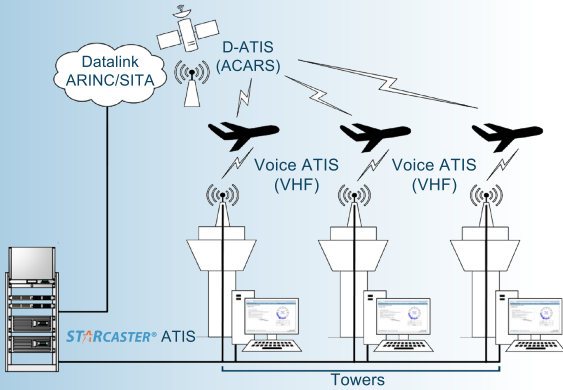
- ISAVIA, 30 March 2016

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Quality that speaks for itself

Standalone D-ATIS

Hosted D-ATIS

Towers

Cloud D-ATIS

(Subscription Service)

Towers

Intended for airports of all sizes, **ST**✦**RCASTER®** is scalable from a single workstation configuration to a fully redundant system to ensure high availability.

Flexible Deployment Options

- Service-Oriented architecture aligns with SWIM, a key enabler of the FAA's NextGen & Eurocontrol's SESAR.
- Scalable hardware platforms, from single workstation to fully-redundant enterprise configurations.
- Deployable as a standalone system for smaller airports, centralized as a hosted solution, or managed as a cloud-based service for multiple or remote towers.
- Provides ATIS service for multiple airports from a single system and can be consolidated with VOLMET services.
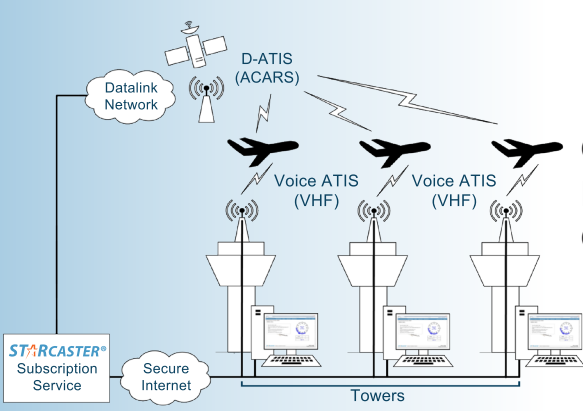
Deployment Architecture

- StarCaster can be deployed in various hardware configurations to fit specific customer needs.
- StarCaster has proven interoperability with a wide array of manufacturers of the following systems:
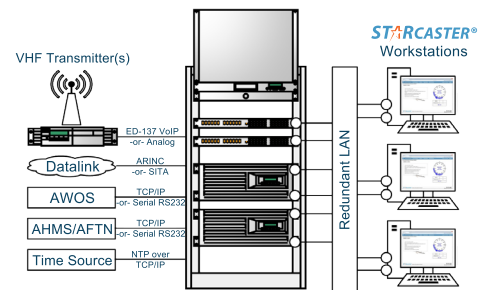
- AWOS & ASOS (including ATIS/ASOS switch capability)
- GPS time source (NTP)

- AFTN & AMHS
- VHF/HF transmitters (analog or ED137-compliant VoIP)

StarCaster Redundant Configuration

Superior Voice Quality

- StarCaster employs exclusive and patented Text-to-Speech technology that produces the most clear and consistent natural sounding voice available on the market.
- StarCaster utilizes a rules-based structure to ensure the correct selection of speech items from a carefully constructed and extensive database of aviation technology, developed specifically by STR-SpeechTech's team of linguists and acoustics experts.
- StarCaster ATIS is available as a dual-language system, with graphical interfaces and full audio provided in English paired with Spanish, French or Portuguese.

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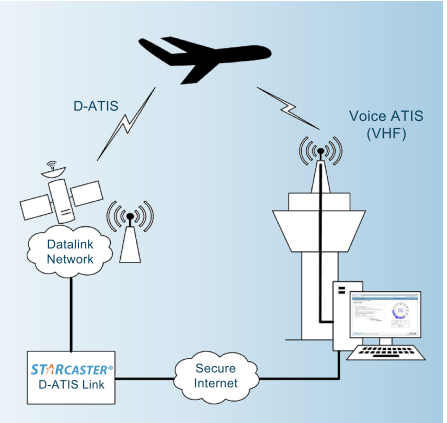Quality that speaks for itself

Datalink Connectivity

StarCaster D-ATIS provides the ability to transmit the text of ATIS messages to ACARS-equipped aircraft via Datalink. This D-ATIS Interface has been field tested and proven compatible with both ARINC and SITA datalink networks. As airline demand for D-ATIS increases, StarCaster presents unique options for implementing D-ATIS in ways not previously thought possible.
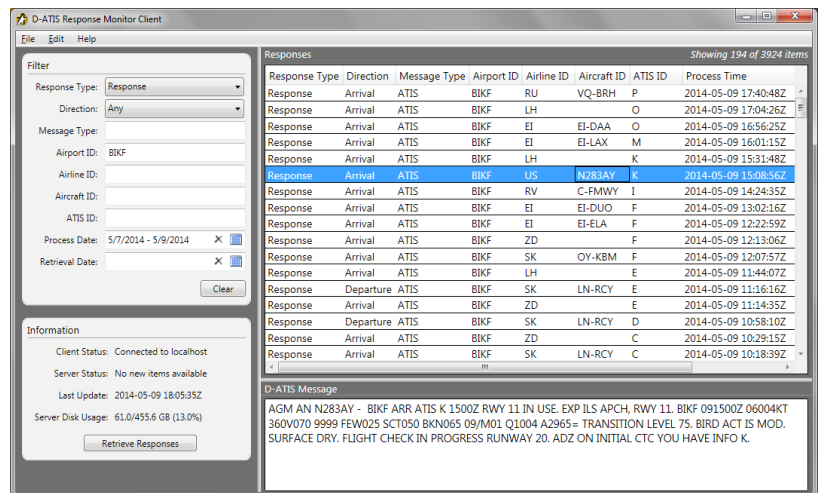
StarCaster D-ATIS LINK™

The StarCaster D-ATIS LINK is an exclusive datalink subscription service available only to StarCaster customers. This service enables StarCaster to transmit D-ATIS messages securely over the public internet via ARINC's network to ACARS-equipped aircraft. All that is required is an internet connection; no contract with a 3rd party datalink service provider (ARINC or SITA) is necessary. StarCaster D-ATIS LINK is a simple and cost- effective solution for implementing D-ATIS at any airport.

StarCaster D-ATIS Response Monitor

The Datalink Response Monitor is an optional software application which can be deployed in conjunction with the StarCaster D-ATIS LINK. It receives hourly reports from the ARINC Datalink server containing all requests for D-ATIS messages made by arriving and departing aircraft, along with:

- the aircraft identifier (tail number),

- the name of the airline,

- the time of the request,

- an indication that the D-ATIS message was successfully delivered to the aircraft, or

- an indication of a failure to deliver the D-ATIS message in response to a request.

In continuous operation at almost 300 sites in some of the most demanding ATC environments, ST☆RCASTER® has completed **millions of broadcasts** containing critical weather and airport information.

Contact us

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Visit our website for StarCaster demos and audio samples at **www.speechtech.com**

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