

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

STARCASTER® 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.

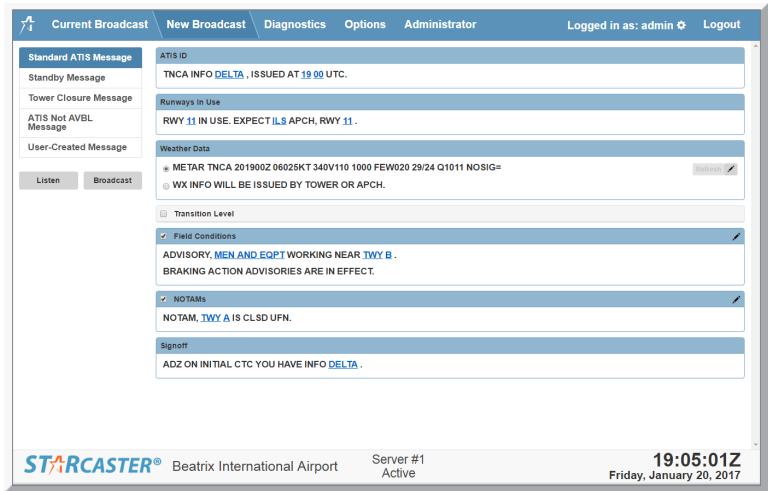
Features

- Automatically receives/processing 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.
- 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.
- 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.
- Provides GRF functionality to broadcast RCR data for all weather conditions and runway contaminants, including Snow, Ice and Wet Only runway conditions.
- SNMP ready/capable.

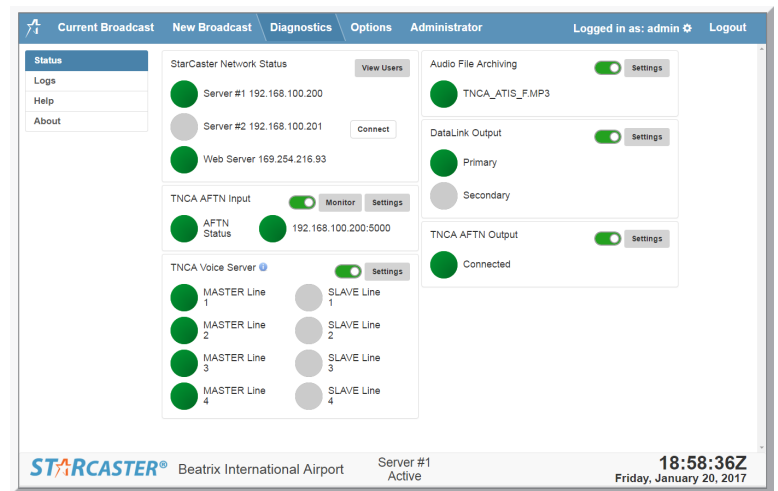


User Experience

- 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.
- Enables ATS Personnel and other system users to view, edit, create and listen to RCR data prior to broadcast by the ATIS.
- 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.



STARCASTER® is a **Natural Voice Text-to-Speech** system that provides the controller with a way to easily create clear and consistent broadcasts.



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.

*"Based on our experience over the last eight years, our **STARCASTER®** ATIS system has the **best MTBF (mean time between failures)** ratio of all aviation equipment in use at Keflavik Airport."*

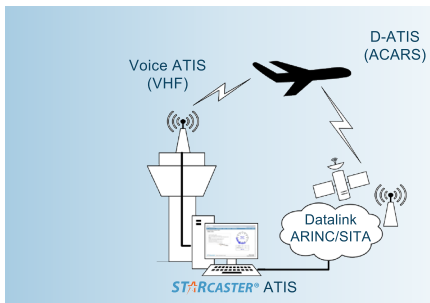
- ISAVIA, 30 March 2016



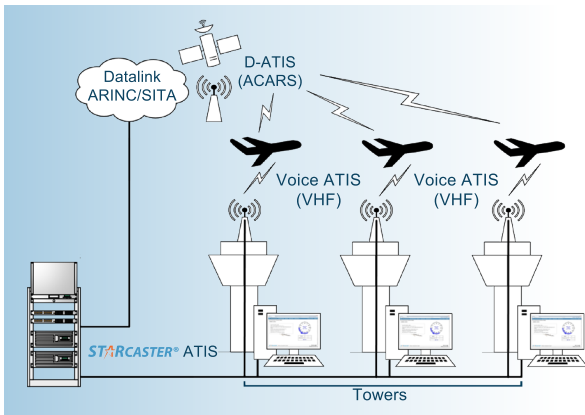
STR-SpeechTech Ltd.

Quality that speaks for itself

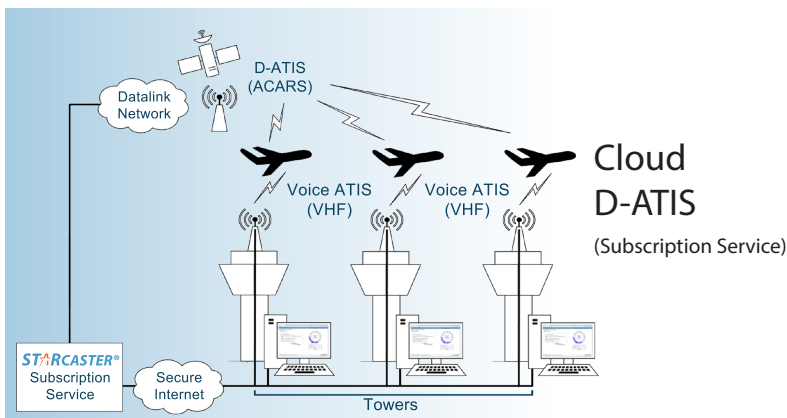
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Standalone D-ATIS



Hosted D-ATIS



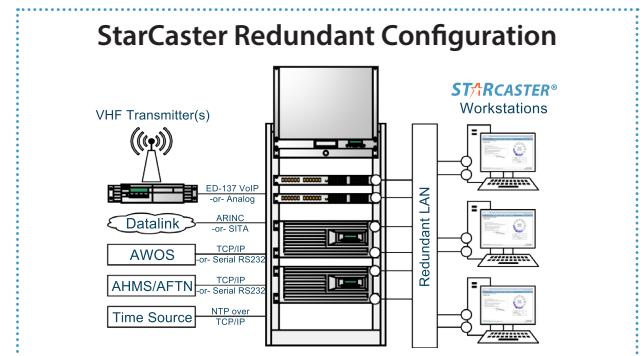
Cloud D-ATIS (Subscription Service)

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)
 - AFTN & AMHS
 - VHF/HF transmitters (analog or ED137-compliant VoIP)
 - GPS time source (NTP)



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

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.



STR-SpeechTech Ltd.

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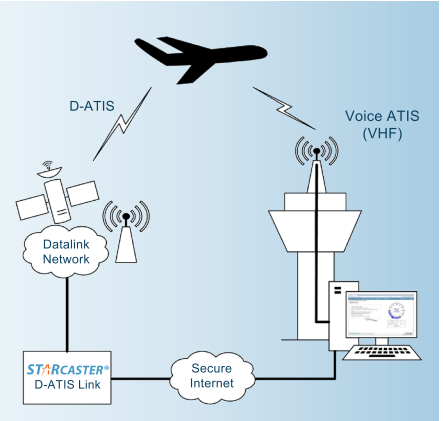
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Datalink Connectivity

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.

Response Type	Direction	Message Type	Airport ID	Airline ID	Aircraft ID	ATIS ID	Process Time
Response	Arrival	ATIS	BIKF	RU	VQ-BRH	P	2014-05-09 17:40:48Z
Response	Arrival	ATIS	BIKF	LH	EL-DAL	O	2014-05-09 16:04:26Z
Response	Arrival	ATIS	BIKF	EL	EL-DAL	O	2014-05-09 16:56:25Z
Response	Arrival	ATIS	BIKF	EL	EL-LAX	M	2014-05-09 16:01:15Z
Response	Arrival	ATIS	BIKF	LH		K	2014-05-09 15:31:48Z
Response	Arrival	ATIS	BIKF	US	N283AY	K	2014-05-09 15:08:56Z
Response	Arrival	ATIS	BIKF	RV	C-FMWY	I	2014-05-09 14:24:55Z
Response	Arrival	ATIS	BIKF	EL	EL-DUO	F	2014-05-09 13:02:16Z
Response	Arrival	ATIS	BIKF	EL	EL-ELA	F	2014-05-09 12:22:59Z
Response	Arrival	ATIS	BIKF	ZD		F	2014-05-09 12:13:06Z
Response	Arrival	ATIS	BIKF	SK	OY-KBM	F	2014-05-09 12:07:57Z
Response	Arrival	ATIS	BIKF	LH		E	2014-05-09 11:44:07Z
Response	Departure	ATIS	BIKF	SK	LN-RCY	E	2014-05-09 11:16:16Z
Response	Arrival	ATIS	BIKF	ZD		E	2014-05-09 11:14:35Z
Response	Departure	ATIS	BIKF	SK	LN-RCY	D	2014-05-09 10:58:10Z
Response	Arrival	ATIS	BIKF	ZD		C	2014-05-09 10:29:15Z
Response	Arrival	ATIS	BIKF	SK	LN-RCY	C	2014-05-09 10:18:39Z

D-ATIS Message
AGM AN N283AY - BIKF ARR ATIS K 1500Z RWY 11 IN USE. EXP 1LS APCH RWY 11. BIKF 091500Z 06004KT 360V070 9999 FEW025 SCT050 BKN065 09/M01 Q1004 A2965= TRANSITION LEVEL 75. BIRD ACT IS MOD. SURFACE DRY. FLIGHT CHECK IN PROGRESS RUNWAY 20. ADZ ON INITIAL CTC YOU HAVE INFO K.

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

Contact us

We look forward to hearing from you.

Email: info@speechtech.com

Tel: +1.250.477.0544 (GMT-8)

212-1001 Cloverdale Ave, Victoria, BC, Canada V8X 4C9

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



STR acknowledges NAV Canada's contribution of aviation domain knowledge as related to aviation and briefing services.



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