

DataBridge⁷ WMS

Modernising Intercept Management



Digital
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Introducing DataBridge⁷ and Warrant Management System (WMS)

DataBridge⁷ is the seventh major release of the DataBridge product, built on a highly scalable, container-first architecture aligned with 3GPP and ETSI Lawful Intercept models. This standards-based foundation, combined with our cloud-native approach and proven support for 5G Standalone networks, ensures seamless integration and simplifies deployment across a variety of environments. Designed from the ground up for cloud-native flexibility, DataBridge⁷ supports CNF and VNF models across public clouds (AWS), private clouds (ESXi), or dedicated COTS x86 hardware. Platform-agnostic design enables deployment in air-gapped environments, ensuring security and adaptability for diverse Communication Service Provider (CSP) requirements.

DataBridge⁷ Warrant Management System (WMS) UI enables CSP or LEA LI operators to provision and manage communication intercepts pertaining to all proprietary vendor-specific X1, X2 and X3 interfaces as well as ETSI-based LI_X interfaces. In addition WMS supports creation and management of objects associated with Lawful Access Location Service (LALS) interceptions, Traffic Policy Function (TPF) and Identity Caching Function/Identity Query Function (ICF/IQF).

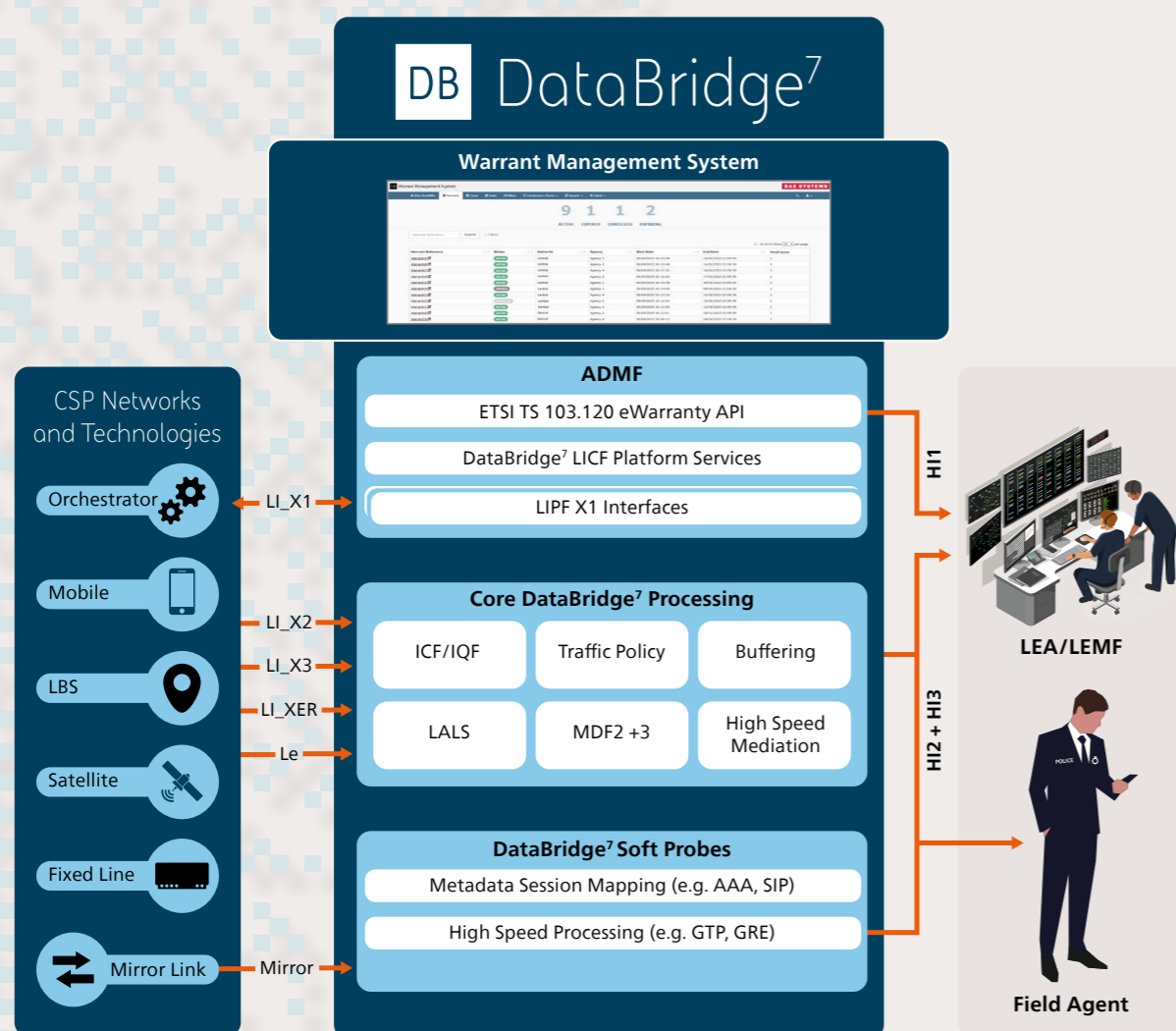
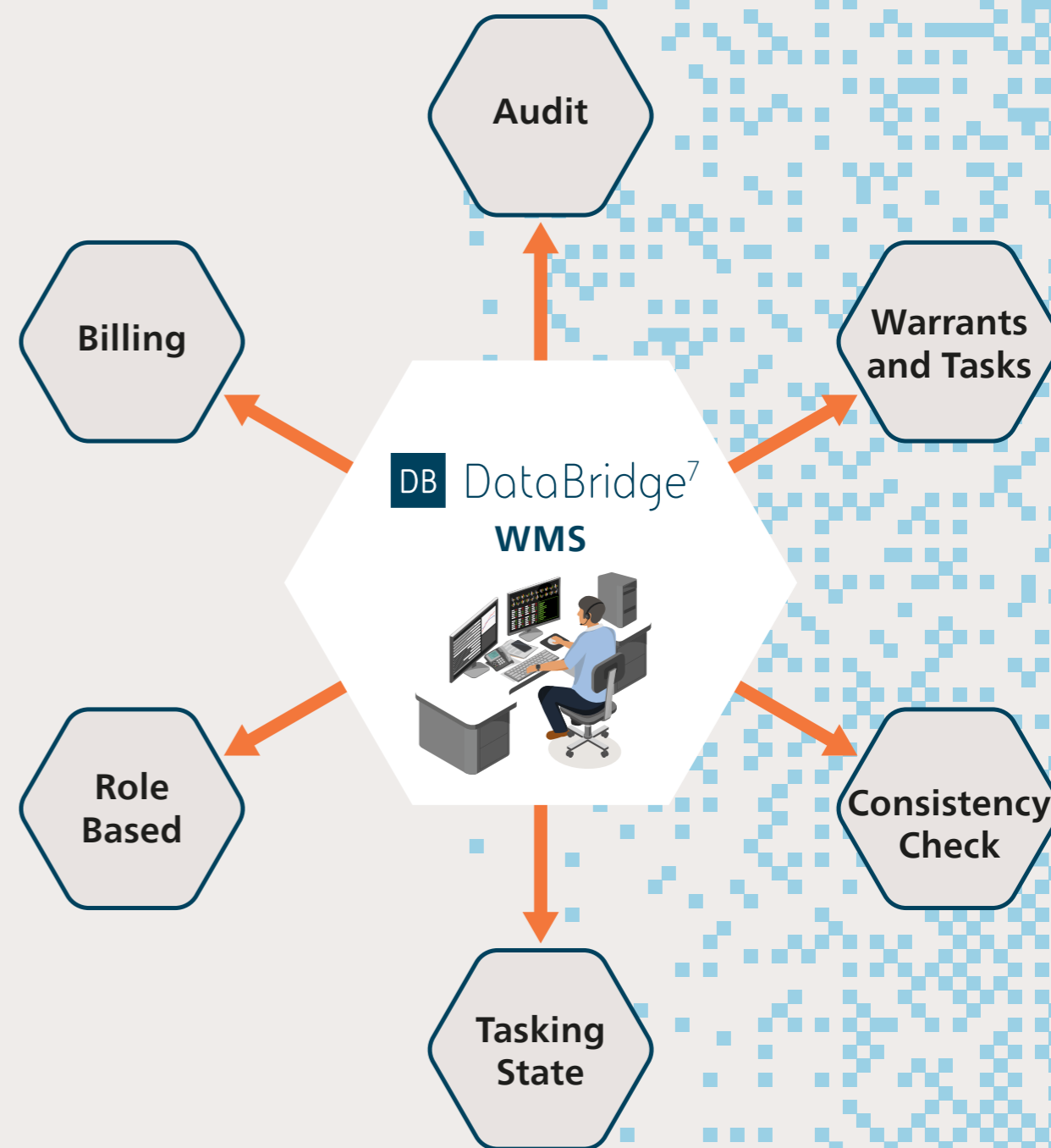


Figure 1: DataBridge⁷ solution architecture

Exploring WMS: Features at a Glance

Modernising Intercept Management

WMS is a web-based interface provided by DataBridge⁷ that is designed to make handling of communication intercepts intuitive and flexible. It streamlines operational workflows such as warrant detail input, tasking-state tracking and validity, consistency-checking, managing updates and maintaining a complete audit trail all within a single, user-friendly platform. By replacing manual, document-driven processes with structured, guided workflows and process automation, DataBridge⁷ WMS reduces operational overhead, minimises risk and helps teams work efficiently and confidently in compliance-driven environments.



Warrant Entry

WMS provides a highly intuitive experience for warrant and task entry, designed to support operational teams in their daily work. Structured forms, object linkage and clear validation help ensure that warrants are captured accurately and completely from the outset, reducing errors and rework. Tasks can be created, assigned and

updated with ease, allowing teams to clearly define scope, timelines and responsibilities while maintaining full traceability. By simplifying data entry and aligning it with real operational workflows, WMS enables faster onboarding of lawful requests and greater confidence in execution.

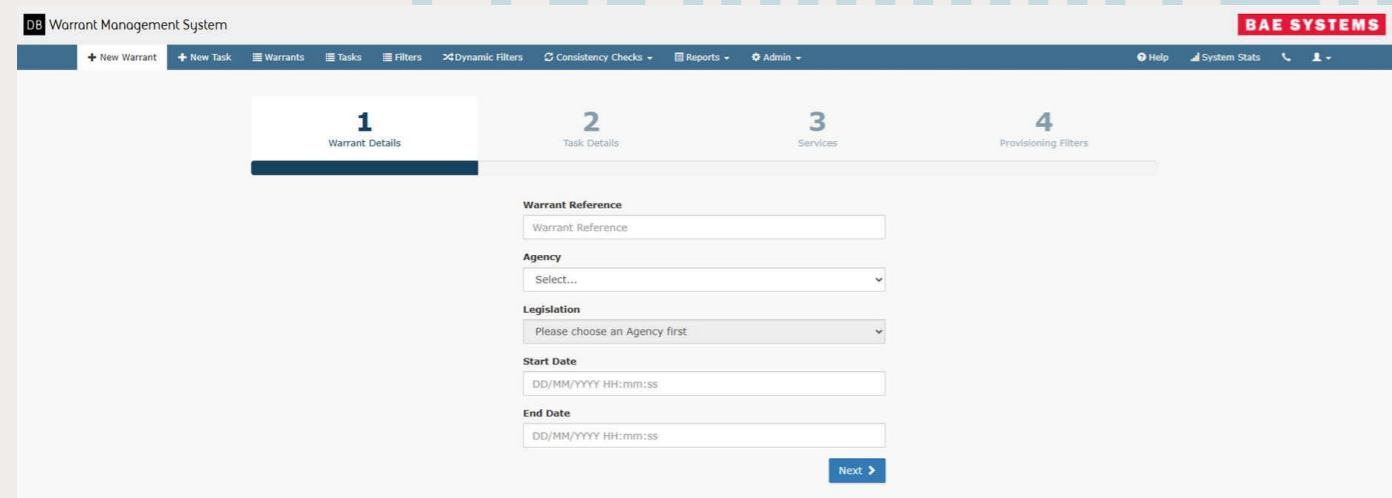


Figure 2: WMS warrant entry – warrant details

Tasking Status

When creating Warrants and Tasks, WMS provides clear, real-time visibility into the system-wide tasking state of each individual module, showing immediately whether a task has been received and processed successfully or if any errors have occurred. This granular feedback allows operators to identify and resolve issues quickly, without guesswork or manual cross-checking. By surfacing tasking status and errors directly within the workflow, WMS reduces delays and improves first-time success rates, giving operational teams greater confidence that intercepts are provisioned accurately and reliably across the network.

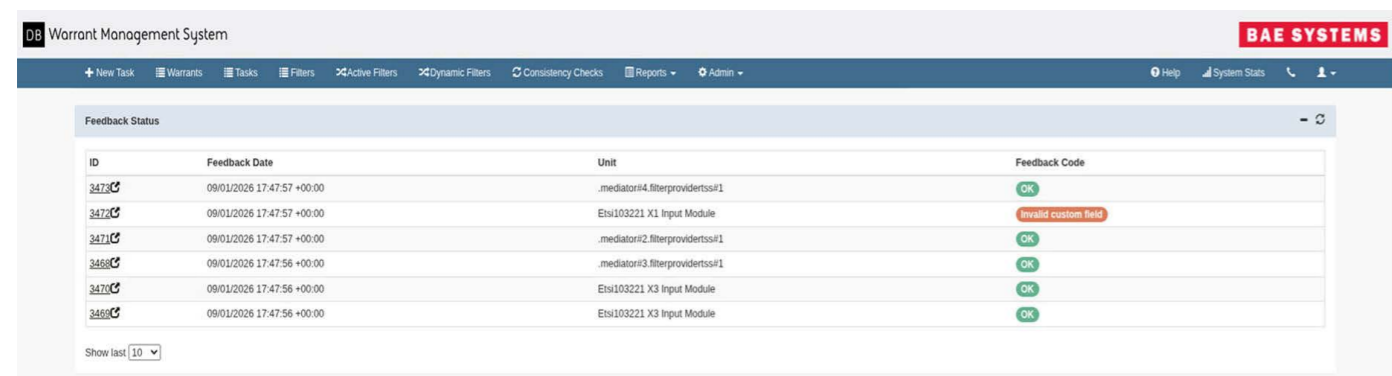


Figure 3: Tasking status visibility in WMS

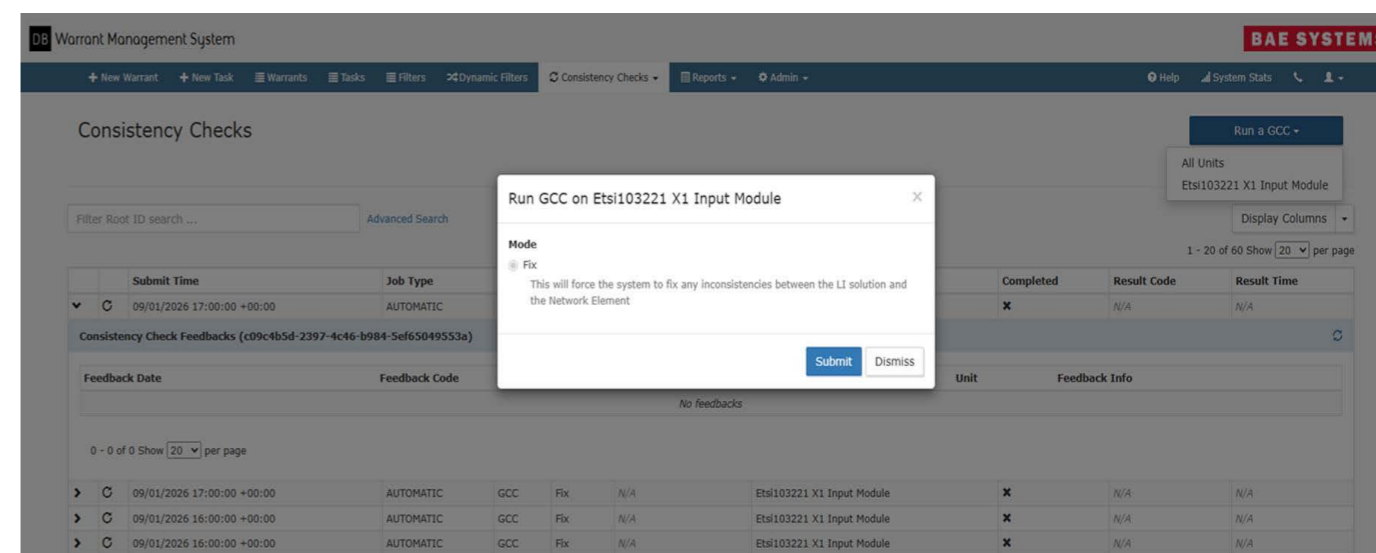


Figure 4: WMS Consistency-Check triggering

Consistency-Check

WMS includes Consistency-Checking capability that enables operators to actively verify synchronisation state between the DataBridge⁷ X1 provisioning interfaces and Points of Interception (POIs). With a single request, all provisioning interfaces can be triggered to query the POIs and retrieve their current list of provisioned surveillances, ensuring that what is deployed in the network accurately reflects what is recorded in DataBridge⁷. This proactive validation helps quickly identify discrepancies, prevent over/under-collection, and resolve issues before they become compliance or operational risks. By maintaining continuous synchronisation between systems, Consistency-Checking provides teams with confidence that lawful activities are executed exactly as intended.

Audit

WMS delivers robust, built-in audit capabilities that provide complete visibility into every stage of the warrant and task lifecycle. All actions - such as creation, review, updates, approvals and status changes - are automatically recorded with timestamps and user attribution, creating a clear and defensible audit trail. This ensures that operational teams, compliance officers and auditors can quickly reconstruct events, verify adherence to internal procedures and demonstrate accountability with minimal effort. Audit records are also exportable in CSV format.

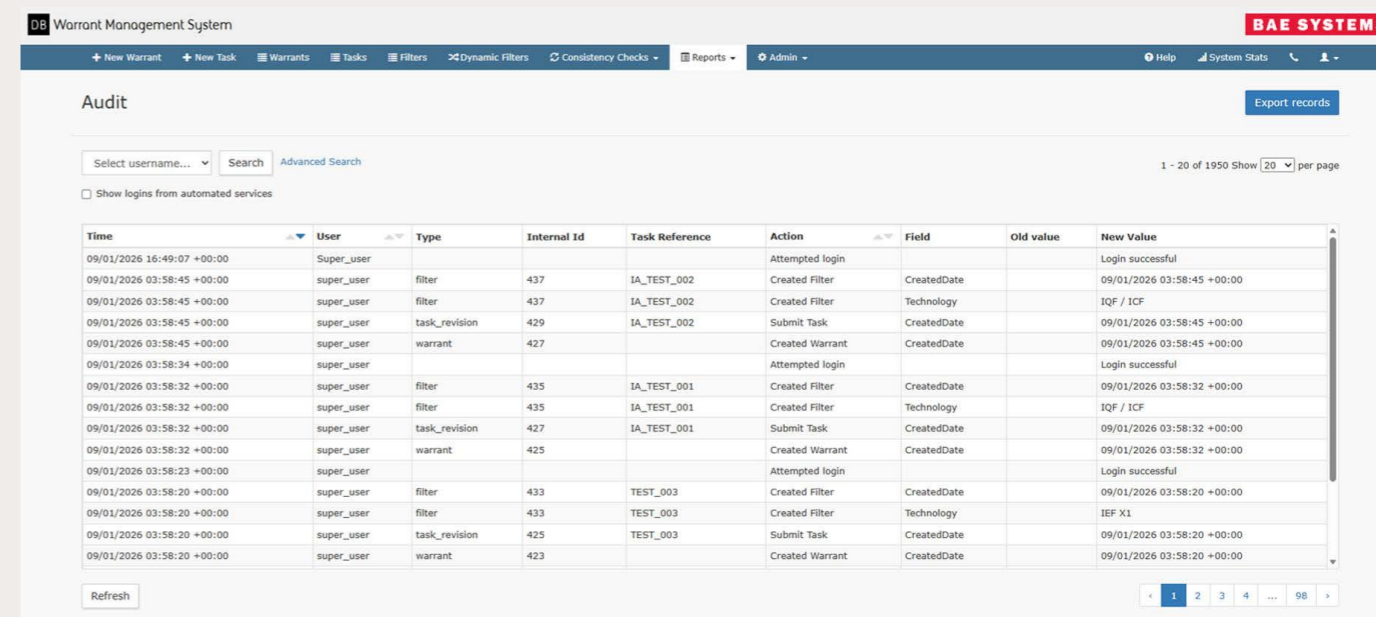


Figure 5: WMS Audit reporting

Role-Based Access Control

WMS includes robust role-based access control capabilities that ensure users only see and perform actions appropriate to their role and authority. The WMS platform leverages *Keycloak* as its identity and access management layer, using realm-based configuration, roles and group mappings to integrate with external directory systems and enterprise

authentication services. This enables centralised user management, single sign-on, and consistent enforcement of authorisation policies across the platform. By building RBAC on top of *Keycloak's* proven security model, Warrant Management UI delivers strong, scalable multi-LEA access control without adding operational complexity.

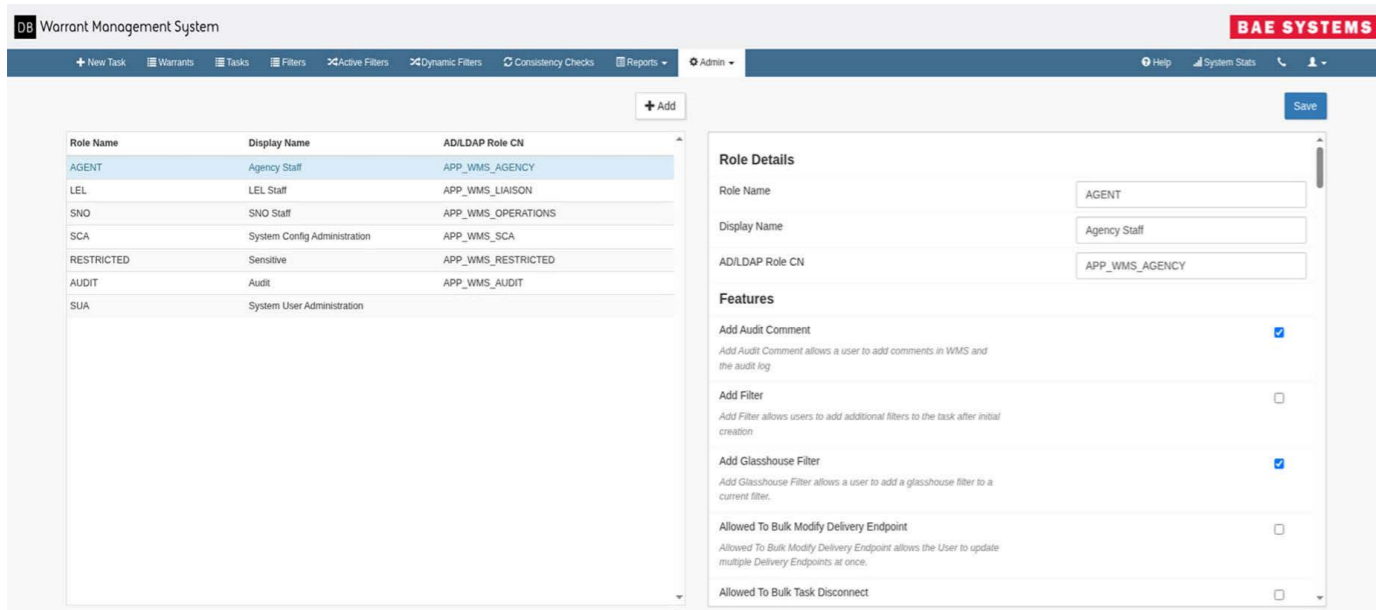
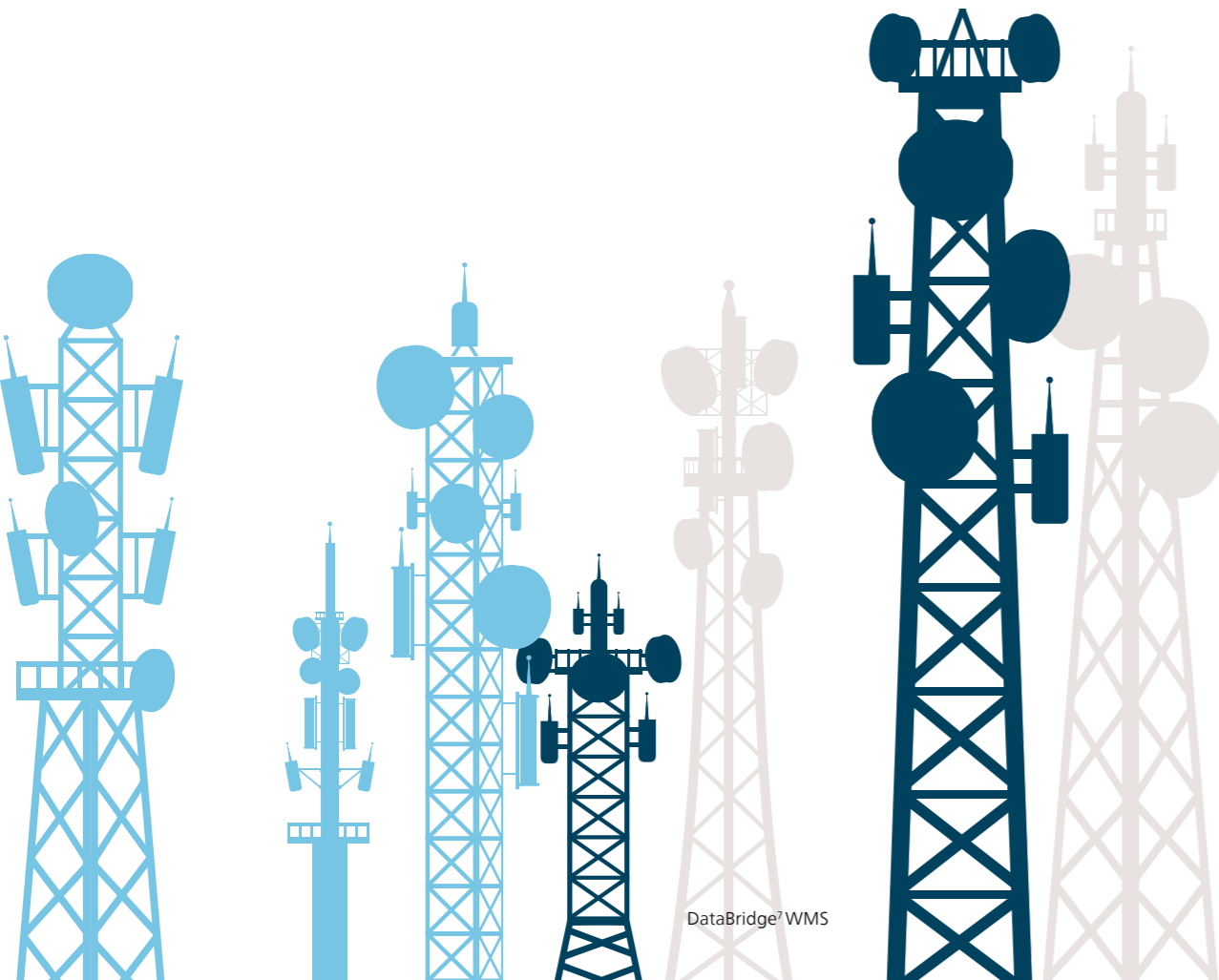


Figure 6: WMS Role-based access control configuration



DataBridge⁷ WMS

Billing

WMS includes a dedicated billing utility designed to support cost recovery for Lawful Interception activities. It enables CSPs to accurately track requests from receipt through execution, capturing the associated activities and operational effort required to fulfil each request. This provides a clear, auditable basis for billing

law enforcement authorities in line with regulatory and contractual obligations. By consolidating billing-related information within the same system used for warrant and task management, the UI reduces administrative overhead and ensures transparency, consistency and accountability in cost recovery processes

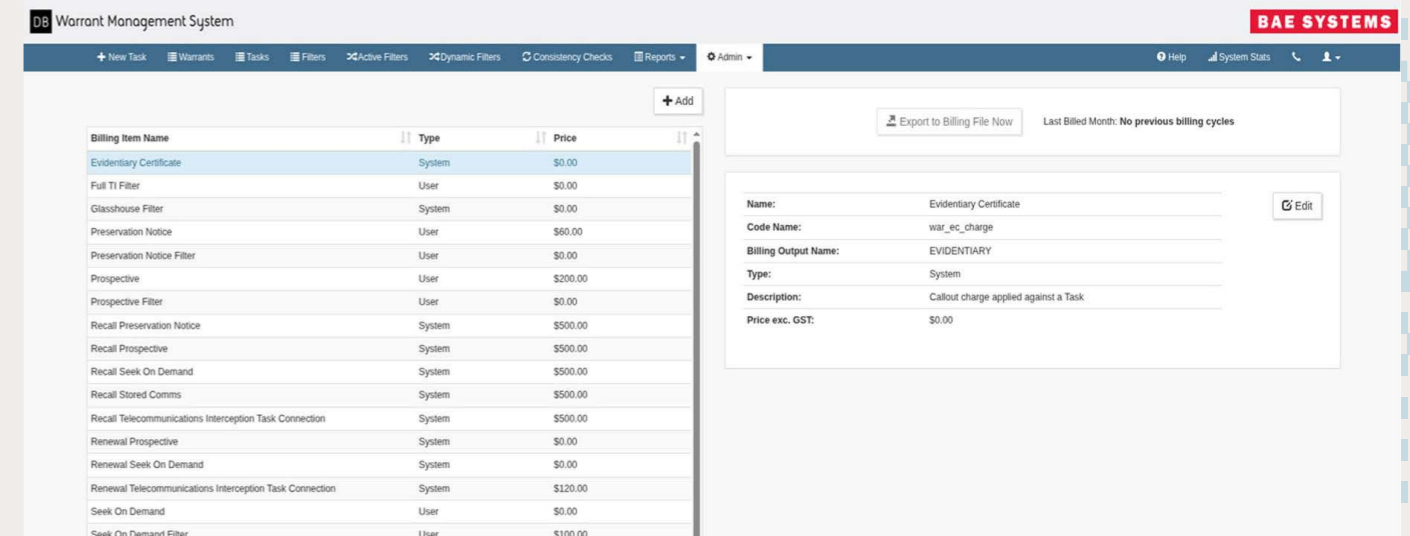
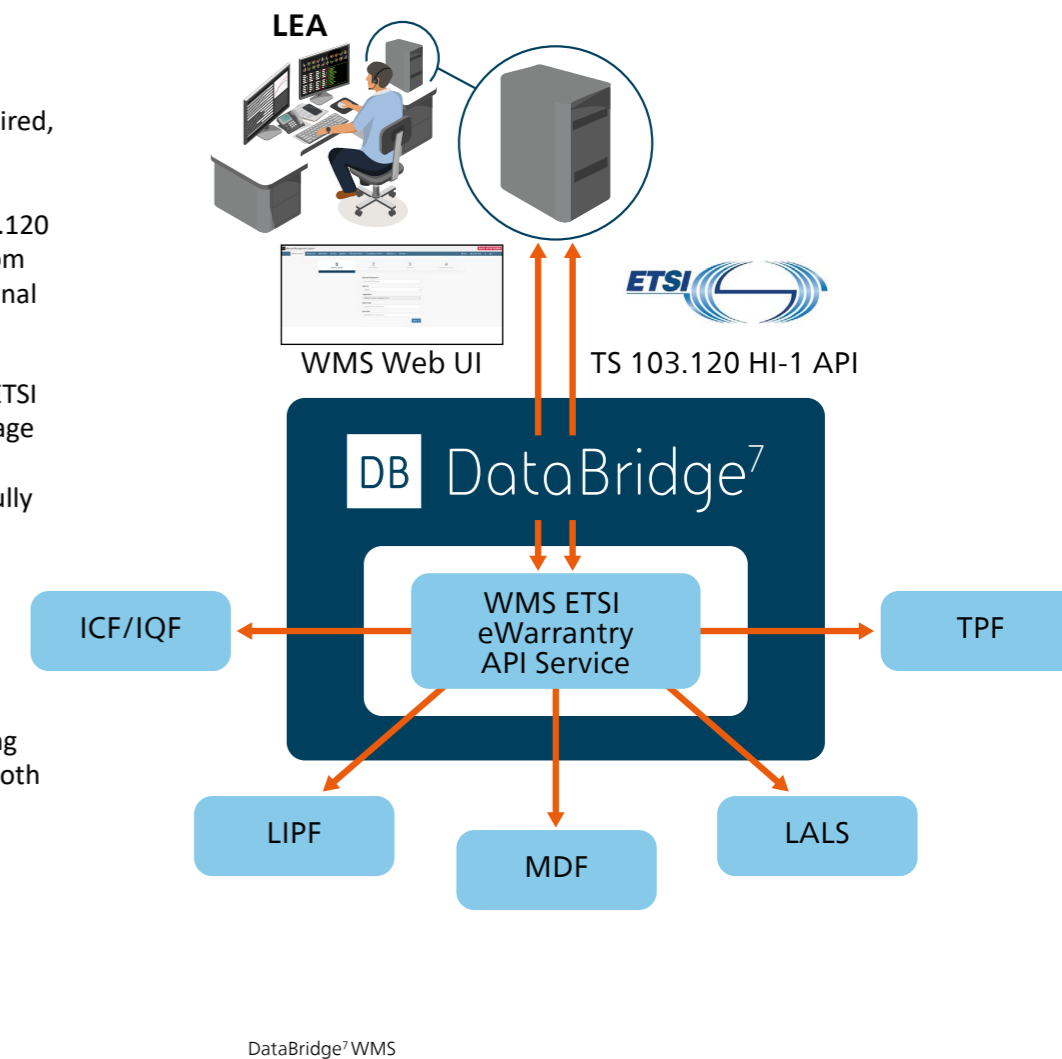


Figure 7: WMS Billing configuration

ETSI TS 103 120 eWarranty Support

Where HI-1 eWarranty is required, DataBridge⁷ WMS provides a ready-to-deploy, productised implementation of ETSI TS 103.120 - transforming the standard from a specification into an operational HI-1 capability.

By natively implementing the ETSI TS 103 120 data models, message flows and lifecycle semantics, DataBridge⁷ WMS provides a fully compliant HI-1 interface that integrates seamlessly into existing lawful interception and disclosure environments. This ensures consistent interpretation of warrants, automated processing and reliable execution across both internal systems and external partners.



DataBridge⁷ WMS

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