

ZOLI DRAGON 3

TECHNICAL WHITE PAPER

Architecture, connectors, agent builder, governance and
operational status

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01 · Executive summary

Dragon 3 is an agentic command platform that unifies conversation, AI models, applications, data, files, workflows and physical devices. Its design thesis is simple: one interaction point, with memory and permissions, able to discuss an objective and turn it into verifiable operations.

The Connector Console documented here is a workspace-scoped operational registry. Its catalogue contains 98 items in 10 families. Users can search, filter, create, update and remove configurations, choosing endpoint, authentication method, credential reference, notes and status. Actual secrets are never stored in browser-visible configuration.

The Agent Builder provides 43 sections, 383 primary fields and contextual controls for each parameter. Saving and presets are operational. Options form a configuration contract: they become executable capabilities when the related service, protocol or gateway is integrated and authorized.

02 · Vision and positioning

The home presents Dragon 3 as “One chat. Every model, every app, every device.” The product combines four dimensions: personal agent, business operating system, orchestration hub and bridge to the physical world. It targets entrepreneurs, SMEs, operational teams, power users, technology-oriented households and organizations needing a central assistant with memory and multi-system control.

The differentiator is not text generation alone: it is orchestration. The agent interprets intent, selects models and tools, retrieves authorized context, proposes actions and applies policies. For sensitive operations the declared model is human-in-the-loop: observe, simulate and prepare; act only within explicit authorization.

03 · Functional architecture

Layer	Responsibility
Chat Core	Single conversational interface
Orchestratore	Intents, tools, models and permissions
Integrazione	APIs, databases, applications, files and devices
Memoria	Evolving context and profile
Governance	Audit, authorization and policies

Layering prevents the conversational model from directly controlling critical systems. Connectors define the boundary; permissions and confirmations govern actions; specialized gateways handle timing constraints and physical protocols.

04 · Home experience and capabilities

- Unified chat
- Multi-model routing
- Persistent memory
- Multimodality
- Devices and IoT

- Business modules
- Automation
- Web navigation
- Content engine
- Robotics readiness

The six domains communicated by the home are Home, Business, Media, Files, Publish and Robot. They are not isolated silos: they share the interface while retaining access and context controls. The manifesto emphasizes living memory, differentiated access, interoperability and freedom from model lock-in.

05 · Connector Console

The Console is separate from the main application and protected by dedicated authentication. It does not show the chat sidebar. Every configuration belongs to the active workspace. Full-catalogue search and numbered filters reduce the time needed to locate a capability.

Name	Type	Endpoint	Authenticat ion	Credential reference	Operational notes	Status
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Connection metadata supports API, OAuth, webhook, database, device, application and custom integrations; authentication can be none, OAuth 2.0, API key, bearer, basic, certificate or vault. Configuration stores only the credential reference.

06 · Inventory of 98 connectors

01 Existing systems · 12

Connectors and adapters for platforms already in use

Connector	Technical purpose
ERP	Business management and administration
CRM	Customers, contacts and opportunities
Gestionali legacy	Existing internal applications
E-commerce	Catalogues, orders and payments
Email e calendari	Mail, appointments and availability
Documenti e archivi	Files, folders and knowledge bases
API REST / GraphQL	External services with documented APIs
Webhook	Inbound and outbound events
SQL / NoSQL	Databases and data warehouses
File e importazioni	CSV, spreadsheets and feeds
RPA controllata	Controlled UI automation
Gateway IoT	Bridge to devices and sensors

02 AI routing · 10

Models and selection criteria for every assignment

Connector	Technical purpose
Gratuiti / open-weight	Open and cost-effective models
Generaliste	Cross-functional tasks
Specialistiche	Domain-specific models
Reasoning avanzato	Planning and complex problem solving
Multimodali	Text, images, audio and video
Modelli locali	Private inference
Qualità	Quality-oriented routing
Costo	Cost optimization
Latenza	Interactive workloads
Privacy	Data and retention constraints

03 Database systems · 10

From data to controlled, complete solutions

Connector	Technical purpose
Schema dati	Tabelle, relazioni e regole
API	Servizi applicativi

Connector	Technical purpose
Interfaccia	Pagine e strumenti
Test	Verifiche funzionali e di sicurezza
CRUD e form	Gestione e raccolta dati
Dashboard	Indicatori e viste
Workflow	Processi e automazioni
Portali clienti	Aree riservate
Report e KPI	Analisi e rendicontazione
Migrazioni	Importazioni e versionamento

04 Authorization and privacy · 10

Security by design

Connector	Technical purpose
SSO / OAuth 2.0	Identità federata
MFA	Verifica multifattore
RBAC + ABAC	Ruoli e policy contestuali
Minimo privilegio	Permessi necessari
Scope per strumento	Autorizzazioni granulari
Isolamento tenant	Separazione dati
Vault credenziali	Riferimenti sicuri
Cifratura	Protezione dati
Retention	Conservazione e cancellazione
Audit azioni	Tracciamento operazioni

05 Smart home and environments · 8

Intelligent control of spaces

Connector	Technical purpose
Luci e scenari	Illuminazione coordinata
Clima intelligente	Temperatura e aria
Consumi energetici	Monitoraggio
Fotovoltaico e batterie	Produzione e accumulo
Sensori e allarmi	Telemetria e sicurezza
Accessi autorizzati	Serrature e accessi
Irrigazione	Automazione impianti
Routine vocali	Comandi e scenari

06 Industry and operations · 8

Real-time production and maintenance

Connector	Technical purpose
PLC / SCADA	Controllo industriale
MES e produzione	Avanzamento produzione
Manutenzione predittiva	Previsione guasti
Qualità e anomalie	Non conformità
Magazzino e logistica	Scorte e spedizioni
Digital twin	Modelli digitali asset
Visione artificiale	Ispezione e riconoscimento
Tracciabilità	Lotti ed eventi

07 Enterprise at every level · 8

Support from individual roles to governance

Connector	Technical purpose
Direzione e strategia	Obiettivi e scenari
Vendite e marketing	Pipeline e campagne
Acquisti e fornitori	Approvvigionamenti
Amministrazione	Contabilità e controllo
HR e formazione	Persone e competenze
Assistenza clienti	Richieste e SLA
Progetti e risorse	Pianificazione
Analisi e previsioni	KPI e forecast

08 Personal command center · 5

Control for home, factory and enterprise

Connector	Technical purpose
Voce, testo e visione	Canali naturali
Contesto condiviso	Conoscenza autorizzata
Simulazione scenari	Confronto alternative
Agenti specializzati	Compiti verticali
Azioni proattive	Automazioni entro policy

09 Boards and makers · 15

Microcontrollers and gateways

Connector	Technical purpose
Arduino	Seriale, WiFi, Ethernet

Connector	Technical purpose
ESP32 / ESP8266	WiFi e BLE
Raspberry Pi	Gateway e GPIO
Home Assistant	Hub domotico
MQTT	Broker IoT
Zigbee	Rete mesh
Z-Wave	Domotica certificata
Matter / Thread	Standard unificato
KNX	Building automation
Modbus	RTU/TCP industriale
OPC UA	Interoperabilità industriale
Bluetooth LE	Wearable e beacon
LoRaWAN	Lungo raggio
Shelly / Tasmota	Relè e prese
Telecamere RTSP	Video e visione

10 Channels and voice · 12

Where the agent speaks and listens

Connector	Technical purpose
WhatsApp	Messaggi automatici
Telegram	Bot e canali
Slack	Assistente team
Microsoft Teams	Assistente aziendale
Discord	Community
Telefono / VoIP	Centralino AI
SMS	Notifiche
Alexa	Skill vocali
Google Home	Comandi smart home
Widget sito	Chat incorporata
Sintesi vocale	Voci multilingua
Riconoscimento vocale	Trascrizione real-time

07 · Agent builder

The Agent Builder combines system prompt, model selection with per-million-token pricing, saved configurations and 43 thematic tabs. Presets can be loaded, renamed through a new save and deleted. Active configuration and presets are persisted separately.

Core

Identità, Voce, Comportamento, Strumenti, Memoria, Canali, Hardware, Automazioni, Sicurezza, Parametri avanzati

Agent intelligence

Pianificazione, Valutazione, Guardrail, Persona, Visione, Audio

Business

Telefonia, Email, Calendario, CRM, E-commerce, Finanza, HR, Legale, Marketing, Analisi

Engineering & physical

Sviluppo software, IoT, Energia, Sicurezza ambienti, Robotica

Knowledge & delivery

Salute, Formazione, Traduzione, Documenti, Ricerca web, Notifiche, Collaborazione, API, Distribuzione, Costi, Backup, Accessibilità

Every parameter exposes meta-configuration: global/channel/user/conversation/device scope; priority; activation condition; error strategy; min/max limits; per-channel or per-device overrides; notes; and protection against prompt-based changes. This turns configuration into policy rather than a mere preference.

08 · Voice and channels

Voice configuration includes TTS activation, speed, pitch, stability, expressiveness, speech recognition, wake word, barge-in, live conversation and MP3, PCM, Opus and WAV formats. Eleven voice profiles include female, male, neutral, robotic and cloned voices. Selection is persisted; synthesis, cloning and telephony require the related connected service.

Channels cover web widget, WhatsApp, Telegram, Messenger, Instagram DM, Slack, Teams, Discord, email, phone, SMS, Alexa, Google Home, REST API and embeds. Notification policies, quiet hours, digests and human handoff are configurable.

09 · Hardware, IoT and industry

The physical layer includes Arduino, ESP32/ESP8266, Raspberry Pi, micro:bit, NVIDIA Jetson, Home Assistant, MQTT, Zigbee, Z-Wave, Matter/Thread, KNX, Modbus, OPC UA, BLE, LoRaWAN, Shelly, Tasmota, Hue, Tuya, RTSP and GPIO. Broker, baud rate, credential reference, QoS, keepalive, command TTL, signature and anti-replay window are configurable.

The architectural principle is delegation: Dragon 3 plans and authorizes at a high level; local gateways and firmware enforce protocols, real-time control, safety interlocks and emergency stops. No language model should directly close a safety-critical control loop.

10 · Security, governance and data

Control	Application
Credenziali	Solo riferimenti; chiavi reali in un archivio sicuro

Control	Application
Isolamento	Configurazioni associate alla workspace
Accesso	Console limitata agli account autorizzati
Approvazioni	Azioni critiche subordinate a conferma
Audit	Registro delle operazioni
Privacy	Mascheramento dati, retention, regioni e domini consentiti
Resilienza	Retry, backoff, circuit breaker, timeout
Device security	Firma Ed25519/ECDSA/HMAC e anti-replay configurabili

11 · Models and cost control

The model selector reads the enabled catalogue and current input/output price per million tokens, distinguishing free and paid models without exposing the routing provider. Configuration includes daily budget, maximum cost per request, monthly cap, 80% warning, caching and over-limit behavior.

Advanced parameters include temperature, top-p, top-k, min-p, penalties, Mirostat, seed, maximum tokens, reasoning budget, candidates, log-probability, stop sequences, JSON schema, tool choice, concurrency, prompt cache, RAG chunking, retrieval, reranking, vector indexes, timeouts, retry, streaming, MQTT and telemetry.

12 · Operational status and responsibilities

Status	Meaning
Operativo	Login dedicato; lingua persistente; catalogo, ricerca e filtri; CRUD configurazioni; preset agente; modello e prezzi; PDF.
Configurabile	Prompt, modello, voce, strumenti, memoria, canali, hardware, workflow, policy, budget e parametri runtime.
Dipendente da integrazione	Chiamate ai sistemi terzi, controllo dispositivi, canali voce/messaggistica, protocolli industriali, pagamenti e provider esterni.

An option in the console does not automatically mean the capability is available. Before production, the service must be connected, credentials and permissions verified, policies defined, failures and revocation tested, and costs and audit monitored. This distinction is essential to accurate technical communication.

13 · Adoption scenarios

PMI

CRM, email, calendari, preventivi, report e approvazioni.

Ospitalità

Messaggistica, prenotazioni, preventivi, territorio, social e sincronizzazioni.

Industria

MES, PLC/SCADA, manutenzione predittiva, qualità e logistica.

Smart building

Home Assistant, KNX, Matter, energia, accessi e allarmi.

Team software

Repository, test, API, ambienti, canary e rollback.

Customer operations

Omnicanale, knowledge base, ticket, SLA e handoff umano.

14 · Appendix: complete matrix

Summary matrix: 10 families, 98 catalogued items. Each row describes a connectable capability and does not imply an external account is already authorized.

Family	Items	Contents
01 Existing systems	12	ERP, CRM, Gestionali legacy, E-commerce, Email e calendari, Documenti e archivi, API REST / GraphQL, Webhook, SQL / NoSQL, File e importazioni, RPA controllata, Gateway IoT
02 AI routing	10	Gratuiti / open-weight, Generaliste, Specialistiche, Reasoning avanzato, Multimodali, Modelli locali, Qualità, Costo, Latenza, Privacy
03 Database systems	10	Schema dati, API, Interfaccia, Test, CRUD e form, Dashboard, Workflow, Portali clienti, Report e KPI, Migrazioni
04 Authorization and privacy	10	SSO / OAuth 2.0, MFA, RBAC + ABAC, Minimo privilegio, Scope per strumento, Isolamento tenant, Vault credenziali, Cifratura, Retention, Audit azioni
05 Smart home and environments	8	Luci e scenari, Clima intelligente, Consumi energetici, Fotovoltaico e batterie, Sensori e allarmi, Accessi autorizzati, Irrigazione, Routine vocali
06 Industry and operations	8	PLC / SCADA, MES e produzione, Manutenzione predittiva, Qualità e anomalie, Magazzino e logistica, Digital twin, Visione artificiale, Tracciabilità
07 Enterprise at every level	8	Direzione e strategia, Vendite e marketing, Acquisti e fornitori, Amministrazione, HR e formazione, Assistenza clienti, Progetti e risorse, Analisi e previsioni
08 Personal command center	5	Voce, testo e visione, Contesto condiviso, Simulazione scenari, Agenti specializzati, Azioni proattive
09 Boards and makers	15	Arduino, ESP32 / ESP8266, Raspberry Pi, Home Assistant, MQTT, Zigbee, Z-Wave, Matter / Thread, KNX, Modbus, OPC UA, Bluetooth LE, LoRaWAN, Shelly / Tasmota, Telecamere RTSP
10 Channels and voice	12	WhatsApp, Telegram, Slack, Microsoft Teams, Discord, Telefono / VoIP, SMS, Alexa, Google Home, Widget sito, Sintesi vocale, Riconoscimento vocale

Conclusion: Dragon 3 provides a unified surface for designing agents and registering governed connections. Production value emerges when every configuration is paired with real integrations, tested policies, monitoring and clear operational ownership.