CUSTOMER GUIDE / PRODUCT RELEASE 2.0

Product Capabilities

Choose an interface and understand the data, execution and operational features in product release 2.0.

Supported systems and interfaces

CGR Connector supports on-premises SAP systems starting with SAP NetWeaver 7.4, including SAP S/4HANA on premises, and SAP systems in private cloud. SAP public cloud is not supported because it restricts access to the SAP objects the Connector needs. Basis must check the prerequisites in the supplied release delivery notes for the target system.

2.0 is the product release. SICF and OData are alternative HTTP interfaces within that release; they are not release 1 and release 2.

Area	SICF interface	SAP Gateway OData interface
Service root	/cgr/api	/sap/opu/odata/CGR/CONN_SRV/
Authentication	HTTP Basic over HTTPS	OAuth 2.0 flows supported by your SAP system
Function POST input	Array of NAME / VALUE entries	Object mapping parameter names to values
Function POST output	Native function JSON envelope	OData entity; d.CONTENT holds serialized function JSON
Execution location	Local or configured RFC backend	Backend selected by Gateway; no additional Connector RFC rerouting

Read and execute existing SAP objects

Capability	What it provides
TABLE	Read active Dictionary tables and supported database views; project fields, validate filters and ordering, and page results.
FUNCTION	Execute authorized function modules and BAPIs with typed scalar, structure and internal-table parameters, including CHANGING and TABLES directions.
REPORT	Execute authorized ALV-compatible reports or query programs using predefined variants and return tabular JSON.
Metadata	Read authorized function interfaces, table field definitions and report variant catalogs without executing the requested business object.

DDIC-backed CDS SQL views can be used where they are supported as active Dictionary views. Direct access to modern CDS view entities is outside this release. This guide covers the generic FUNCTION, TABLE and REPORT APIs; specialized business resources have their own contracts.

What is new in 2.0

- Typed function binding validates inputs against the active interface. Omitted parameters remain omitted; output-only parameters cannot be supplied as inputs. Read-only metadata helps clients build the correct request.
- Validated table and report reads reject unknown fields, invalid paging and unsupported query syntax. Table filters support comparisons, grouping, logical operators and selected string functions.
- Versioned execution evidence records normalized context, original request bytes when supplied, backend output, execution identity, full URI and correlation IDs. Logging has a transaction boundary separate from business work.
- The paged SAP GUI monitor includes structured payload trees, caller IP, attempt history, result classification and a guarded manual FUNCTION rerun workflow.
- Retention tools support previews, optional manual cleanup and a separate scheduled purge for versioned chains.
- Optional result profiles interpret configured BAPI-style RETURN output. Optional notifications use durable captured intents, explicit preparation/sending controls, individual messages and digests.

Methods and response conventions

SICF supports GET and POST for the generic function, table and report resources. The Gateway interface supports function GET/POST and table/report GET; Gateway TABLE/REPORT POST is not available. GET media streams return raw JSON. A Gateway function POST response contains serialized JSON inside its OData CONTENT property; parse the outer document and then CONTENT.

> **Business success needs business evidence**
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> HTTP 200 and technical SUCCEEDED indicate that execution and serialization completed. A BAPI may still return a business error. Classification records that distinction without rewriting HTTP status or changing commit policy.

Paging and practical limits

There is no Connector-wide limit on the total number of rows retrieved across pages. Use a positive top and increasing skip, with stable ordering, to bound each request. top=0 preserves the unlimited-results convention and should be used deliberately. SAP memory, string capacity, execution time and HTTP infrastructure constrain individual requests.

Operational components have additional bounds: a persisted payload component has a 16 MiB hard ceiling; the monitor payload reader accepts up to 1 MiB and displays at most 500 complete records per table. These are not total data-extraction row limits. See Monitoring and Log Retention for storage, display and classification limits.

Network behavior and operational defaults

The Connector initiates no outbound HTTP or HTTPS calls, including license checks, update checks and telemetry. The SICF option supports backend RFC. Optional email is submitted through SAPconnect; Basis configures the SMTP route. Basic installation does not enable notification capture, preparation, sending or a periodic job.

Manual reruns require explicit operator review and a fresh immutable attempt. There is no automatic business retry, TABLE/REPORT rerun or bulk rerun. No exactly-once business-execution guarantee is implied.

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Use these release 2.0 instructions with the supplied release delivery notes. Release 1.3 has a separate documentation and PDF set.