Cognyte

Symphia NowForce

Database Schema Reference Guide

From version 6.0

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Contents

Contents 3

Preface 4

About this Document 4
Documentation 5
Contacting Cognyte Sales and Marketing 6
Contacting Cognyte Service and Support 7

Overview 8

Database Schema 9

User Schema Tables 10
Incidents Schema Tables 13

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Preface

Cognyte NowForce's advanced dispatch and response technology enables the integration of critical data in real-time, to provide comprehensive situational awareness. The NowForce system allows dispatchers, responders and third-party resources to share insights in real time for better understanding and faster response to potential threats and active incidents. Utilizing live and historical event data, coupled with GISmaps, responder positions, reporter inputs, and other external source information, security teams can dispatch the closest, best equipped and most appropriate personnel.

- **Dispatch Features**

  Optimizes situational awareness, minimize incident response times and integrate robust communications.

- **Reporting Features**

  Creates a direct lifeline to your control center to ensure the safety and security of your assigned population.

- **Response Features**

  Enables rapid and accurate response with full situational awareness and interactive communications.

The NowForce Customer Furnished Equipment GuideVendor-Supplied Equipment Guide, provides the recommended hardware and software required to deploy a NowForce environment.

Other guides that might assist you in preparing your hardware and software specifications include the *Vendor-Supplied Equipment Guide*.

About this Document

This document describes the NowForce database schema, their relationship, and their representations in the NowForce MSSQL Server database. This document is intended for BI developers that have knowledge in relational databases.

This document is only relevant for on-premises single tenant installations.

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Documentation

- Download documentation from: https://partners.cognyte.com/.
- Send your questions or comments on the current document, or any other Cognyte/Symphia user documentation, to our documentation feedback team at documentationfeedback@cognyte.com.

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Contacting Cognyte Sales and Marketing

Cognyte is a global leader in security analytics software that empowers governments and enterprises with Actionable Intelligence for a safer world. Our open software fuses, analyzes and visualizes disparate data sets at scale to help security organizations find the needles in the haystacks. Over 1,000 government and enterprise customers in more than100 countries rely on Cognyte's solutions to accelerate security investigations and connect the dots to successfully identify, neutralize, and prevent threats to national security, business continuity and cyber security.

To schedule an online demo today, contact us on:

- https://www.cognyte.com/contact/
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Contacting Cognyte Service and Support

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If you encounter any type of problem after reading this document, contact your local distributor or Cognyte representative. For the main service and support page on the Cognyte web page, visit: https://www.cognyte.com/contact

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Overview

Symphia NowForce uses an MSSQL Server database to aggregate operational data. Analysis and visualization of the data using a third party BI system, provides operational insights.

NowForce supports any BI system that has the capability to connect to an SQL database and query data from a relational database, such as Grafana, Microsoft BI, Sisense, and Tableau.

Before you begin

- The NowForce database uses MSSQL Server version 2019.
- BI systems require a dedicated read-only user to access the database.
- If the NowForce installation consists of a read-replica, we recommend that you connect the BI system to the read-only node.
- The database schema is complex. We therefore recommend using a few professional services hours for an introduction to the system and an orientation to the database.

Caution

- It is the customer's responsibility to make sure that the BI queries do not affect the system performance.
- NowForce is not responsible for any malfunctions due to changes in the database schema, or any other configuration changes in the SQL Server.

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Database Schema

The NowForce database has a schema for the following entities:

- Users - Users include Administrators, Dispatchers, Responders, Reporters, API Users, SOS users and any other user that can log in to the NowForce Dispatcher API or mobile app.
- Incidents - Incidents schema includes data related to the incidents.

> **Note**
> Incidents must have a location represented as latitude/longitude coordinates (WGS84 decimal format). The coordinates can be a representation of an address (GeoLookup) or the location of a POI used as the incident's location.

- Forms - Forms schema includes data related to incident forms, templates, and values entered by users.
- Assets - Assets schema includes any object or user associated to incidents, POIs, Polygons, and users, such as callers, contacts, documents, images, and videos.
- POI - The schema includes a list of POIs and their location (latitude/longitude and address) and their attributes.

The following topics describe the schemas which are commonly used in queries and dashboards:

User Schema Tables 10
Incidents Schema Tables 13

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User Schema Tables

The tables included in the Users schema are as follows:

> **Note**
> In order to join tables in a query, you must include the OrganizationId and the specific Foreign Key. The OrganizationId field exists in every table.

Table	Primary Key	Foreign Key	Details
MobileUsers	Combination of: • MobileUserId • OrganizationId		Contains all users. Each user has a username, contact information such as phone and email, IPAddress, Port, InstalledVersion, LastSyncDate.
MobileUsersLocations	LocationId		Contains historical locations of users. Locations are stored for 14 days by default, unless configured otherwise.
MobileUserAddresses	Combination of: • MobileUserId • OrganizationId • MobileUserAddressId	MobileUserId	Contains users addresses.
MobileUserEmails	Combination of: • OrganizationId • MobileUserId • EmailId	MobileUserId	Contains users emails.
MobileUserPhones	Combination of: • OrganizationId • MobileUserId • MobileUserPhoneId	MobileUserId	Contains users phone numbers.

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Table	Primary Key	Foreign Key	Details
MobileUserProfiles	Combination of: • ProfileId • OrganizationId • MobileUserId	• ProfileId • MobileUserId	This table connects the user to a single profile, even though it's a many-to-many table.
Profiles	Combination of: • ProfileId • OrganizationId		This many-to-many relation table connects the user's permissions and the license that the user consumes.
ProfileLicenses	Combination of: • OrganizationId • ProfileId • LicenseTypeId	• ProfileId • LicenseTypeId	This many-to-many relation table between Profiles and Licenses defines which licenses each profile consumes.
LicenseTypes	LicenseTypeId		This table contains the list of licenses for the entire system.

The relationship between tables are displayed as follows:

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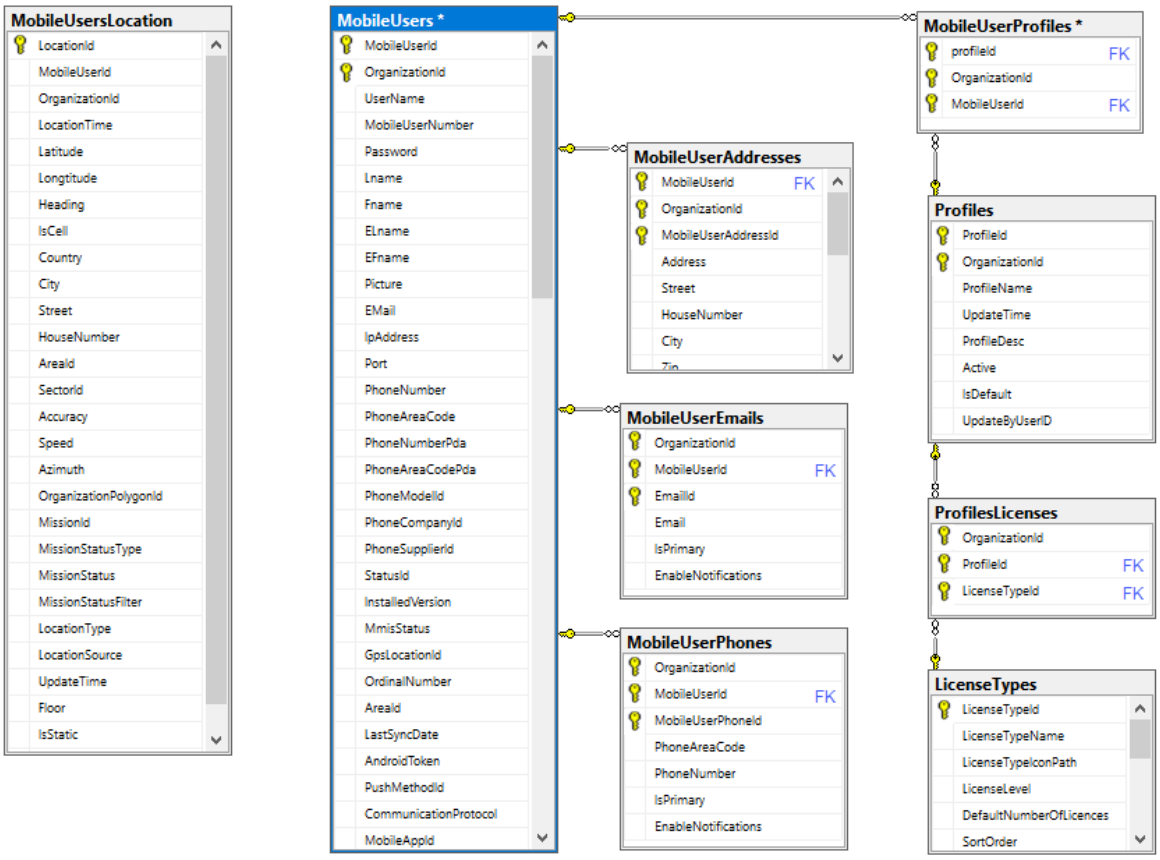

Key:

- This table's Primary Key is used
- ∞ Primary Key used in infinite relationships
- FK Foreign Key
- Primary Key

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Incidents Schema Tables

The tables included in the Incidents schema are as follows:

> **Note**
> In order to join tables in a query, you must include the OrganizationId and the specific Foreign Key. The OrganizationId field exists in every table.

Table	Primary Key	Foreign Key	Details
Missions	Combination of: • MissionId • OrganizationId	MissionKindId	The main table includes the information related to incidents.
MissionsKinds	Combination of: • OrganizationId • MissionKindId		Contains the incident types and their properties. Incidents must have an incident type.
DynamicMissionDetailsValues	Id	MissionId	Contains the latest data entered in the incident's form by the end-user (Dispatcher/Responder/Reporter). Revisions are stored in a separate table.
MissionMobileUserStatuses	MMUSId	• MissionId • StatusId	Contains all the mobile users involved in the incident, from dispatch to done, including all the intermediate statuses such as, No-go, En-Route, and On-Scene.
MobileUserMissionsStatuses	StatusId		Contains a description of the statuses from the MissionMobileUserStatuses table.
MissionPoi	Id	• POIId • MissionId	This many-to-many relation table connects incidents (Missions) and the POIs used

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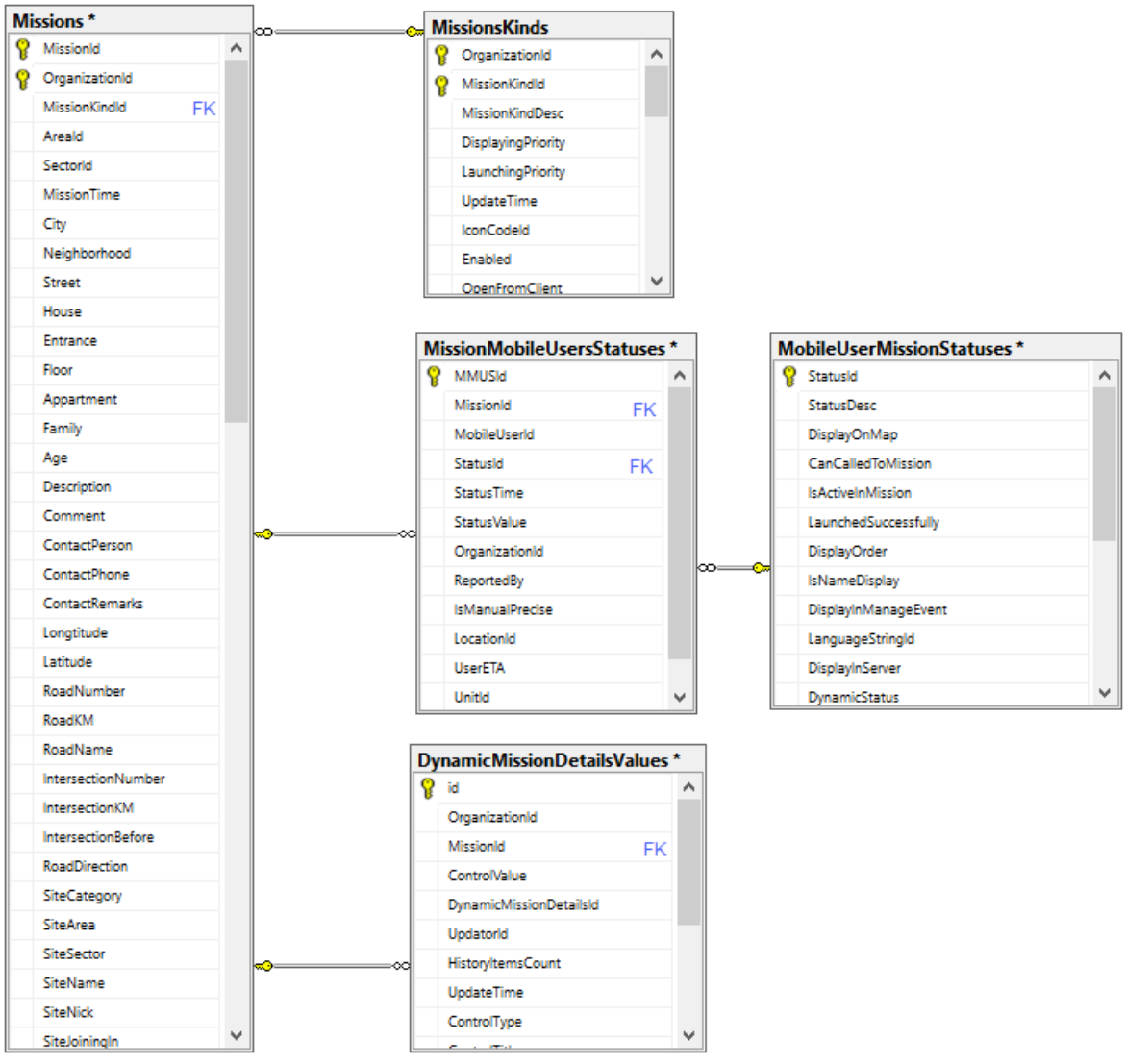
Table	Primary Key	Foreign Key	Details
			as the incident's location.
POI	Combination of: • Id • OrganizationId		Contains all of the organization's POIs and their attributes.

The relationships between database tables are displayed as follows:



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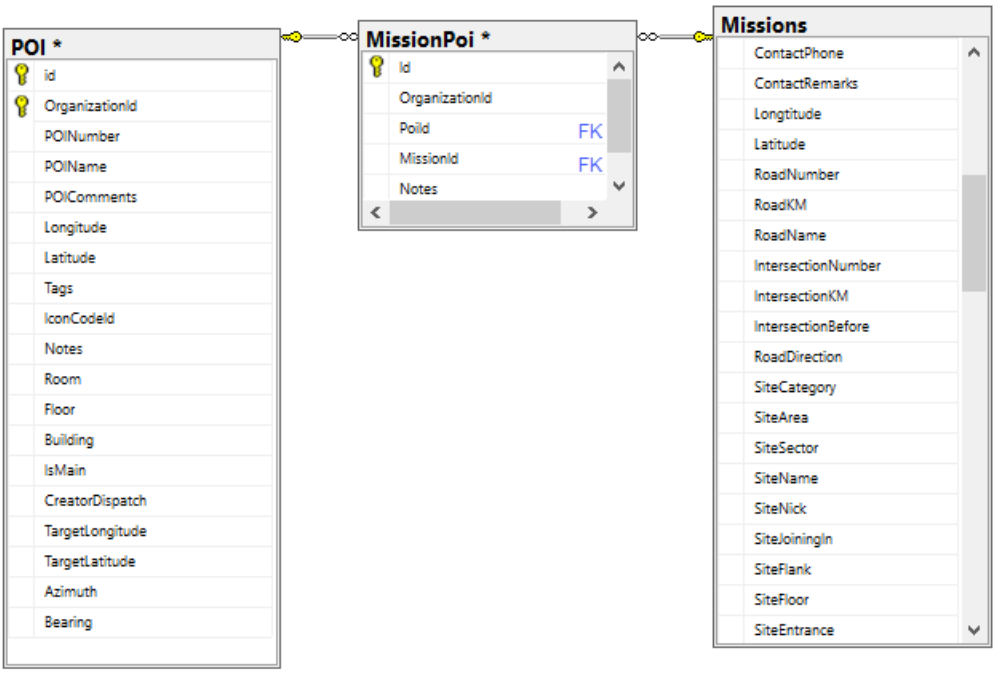

Key:

- This table's Primary Key is used
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