
Release Documentation

**Processamento para Emissores
Interface para Personalizadores
Emissores**

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Documentos Relacionados

Referência	Título	Origem
DCSIBS110139	Manual do Serviço - Processamento para Emissores	AF Desenvolvimento de Serviços
(1)	<i>EMV Integrated Circuit Card Specification for Payment Systems</i>	
(2)	<i>EMV Card Personalization Specification</i>	
(3)	<i>VISA Integrated Circuit Card - Card Specification</i>	
(4)	<i>Common Personalization - Technical Requirements for Visa Smart Debit and Credit (VSDC)</i>	
(5)	<i>Visa EU Personalisation Templates</i>	
(6)	<i>Visa Smart Debit and Visa Smart Credit - Member Implementation Guide for Issuers</i>	
(7)	<i>Visa Contactless Payment Specification</i>	
(8)	<i>Quick Visa Smart/Debit Credit (qVSDC) and Magnetic Stripe Data (MSD) Contactless Card Personalization Specification</i>	
(9)	<i>Visa PayWave - Member Implementation Guide for Issuers</i>	
(10)	<i>M/Chip 4 Card Application Specifications for Debit and Credit</i>	
(11)	<i>M/Chip Requirements</i>	
(12)	<i>M/Chip 4 - Common Personalization Specifications</i>	
(13)	<i>M/Chip Personalization Data Specifications and Profiles - Debit and Credit</i>	
(14)	<i>M/Chip 4 Issuer Guide to Debit and Credit Parameter Management</i>	
(15)	<i>PayPass - MChip - Technical Specifications</i>	
(16)	<i>PayPass MChip ApplicationNote#11</i>	
(17)	<i>MasterCard PayPass - M/Chip Issuer Implementations Requirements</i>	
(18)	<i>"PayPass Personalization Data Specifications"</i>	
(19)	<i>"AEIPS Chip Card Specification"</i>	

Revisões

Versão	Data	Descrição	Autor
01.00	25-03-2010	Criação do documento	AF Desenvolvimento de Serviços
02.00	11-10-2012	Alteração do documento: Inclusão do layout do novo ficheiro PINM - secção 3.3; Alteração editorial da secção 3.1 - ficheiro PERS - de acordo com o novo template de documentação da SIBS FPS (sem impacto técnico). Inclusão da versão 2 do ficheiro PERS (nova versão). Atualização das DGI referentes a ambas as versões deste ficheiro em consonância com as evoluções efetuadas desde a última versão publicada do documento - secções 3.2.5.5.5.1, 3.2.5.5.5.2., 3.2.5.5.5.3, 3.2.5.5.5.4. Feita referência de que as DGI-8101 e DGI-8103 podem ser preenchidas com zeros, para ambas as versões do PERS - Tabela 69, Tabela 71, Tabela 164, Tabela 166. Alterações respeitantes ao Instant Issuing EMV e cartões não personalizados e Instant Issuing contactless (versão 2 do ficheiro PERS, secções 3.2.5.5.5.3 e 3.2.5.5.5.4); DGI-0101 Track Data MasterCard, Tabela 115 - foi retirado o Cardholdername do conteúdo e do nome;	AF Desenvolvimento de Serviços

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		<p>DGI-0102 Track Data VISA, Tabela 113, - foi retirado o Cardholdername do conteúdo e do nome;</p> <p>DGI-0102 Track Data MasterCard, Tabela 115 - foi retirado o Cardholdername do conteúdo e do nome;</p> <p>DGI-0102 Cardholdername, DGI a utilizar para a versão 2 do ficheiro PERS</p> <p>Tabela 112, passa a ser válida para MasterCard/Maestro Contact-Only DDA;</p> <p>Criada a DGI-0103 Cardholdername, DGI a utilizar para a versão 2 do ficheiro PERS</p> <p>Tabela 112 e Tabela 120;</p> <p>Alterações aos valores na Tag 94, Tabela 190.</p> <p>Outras alterações editoriais sem impacto na informação técnica.</p>	
03.00	02-04-2013	<p>Alterações à versão 2 do ficheiro PERS no sentido de possibilitar a emissão de cartões AMEX DDA, com os seguintes impactos:</p> <p>DGI renomeadas:</p> <ul style="list-style-type: none"> “DGI-0101 Track Data and Authentication Data AMEX” - renomeada para “DGI-0101 Track Data and Authentication Data AMEX [SDA]” - Tabela 119. “DGI-0102 Unsigned Card Data AMEX” - renomeada para “DGI-0102 Unsigned Card Data AMEX [SDA]” - Tabela 122. “DGI-0103 Signed Card Data AMEX” - renomeada para “DGI-0103 Signed Card Data AMEX [SDA]” - Tabela 124. “DGI-0D01 (Internal) Card Risk Management Data AMEX” - renomeada para “DGI-0D01 (Internal) Card Risk Management Data AMEX [SDA]” - Tabela 148. “DGI-0E01 (Private) Card Risk Management Data AMEX” - renomeada para “DGI-0E01 (Private) Card Risk Management Data AMEX [SDA]” - Tabela 151. “DGI-9102 SELECT Response Data AMEX” - renomeada para “DGI-9102 SELECT Response Data AMEX [SDA]” - Tabela 188. <p>DGI novas:</p> <ul style="list-style-type: none"> “DGI-0101 Track Data & Authentication & Unsigned Data AMEX” - Tabela 118. “DGI-0102 Cardholdername AMEX” - Tabela 121. “DGI-0103 Signed Card Data AMEX” - Tabela 123. “DGI-0104 ISS PK Certificate” - Tabela 125. “DGI-0105 ICC PK Certificate” - Tabela 126. “DGI-0D01 (Internal) Card Risk Management Data AMEX” - Tabela 147. “DGI-9102 SELECT Response Data AMEX” - Tabela 187. “DGI-9200 GENERATE AC Response Data AMEX” - Tabela 195. <p>Outras alterações:</p> <ul style="list-style-type: none"> Os valores do AIP (tag “82”) e do AFL (tag “94”) sofrem alterações para AMEX DDA - Tabela 192. Acrescentadas duas colunas na tabela de combinação de DGI – Tabela 112. Correção do layout do Módulo Personalização Gráfica - MIC GRF1 – Tabela 13 Tabela 13. <p>Outras alterações editoriais sem impacto na informação técnica.</p>	AF Desenvolvimento de Serviços
04.00	08-10-2013	<p>Atualização do documento:</p> <p>Inclusão do novo ficheiro CPER – secção 3.4.</p> <p>Alterações editoriais nas secções 1. Introdução; 1.1 Enquadramento; 2. Diagrama Funcional Global e 4. Dicionário de Dados para incluir a informação relativa ao novo ficheiro.</p> <p>Outras alterações editoriais sem impacto na informação técnica.</p>	AF Desenvolvimento de Serviços

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05.00	09-05-2014	Criação do ficheiro PERS V03 - secções 3.2.5.5.5 e 3.2.5.5.6.	AF Desenvolvimento de Serviços
05.10	10-07-2014	<p>Alterações às seguintes DGI:</p> <ul style="list-style-type: none"> • DGI-9102 PPSE - Select PPSE Response Data - acrescentada tag '9F2A'; • DGI-9115 qVSDC GPO Response (Online Decline without ODA) - retiradas as tags '5F34' e '9F6E'; • DGI-9116 qVSDC GPO Response (Offline with ODA) e - DGI-9117 qVSDC GPO Response (Online with ODA) - retirada a tag '9F6E'; mudança da dimensão da tag '9F4B'; • DGI-0102 Cardholder Name; DGI-0103 Cardholder Name - passam a estar cifradas; • DGI-3F57 International Counters Template – VIS, qVSDC - alterado o value da tag 'DF11'; • DGI-3001 Application Internal Data (Contactless) - retirada da tag '9F67'; • DGI-0203 Dynamic Authentication Data VISA Paywave - alteração da length da tag '9F69'; nas tags '9F6E' e '9F69'; • DGI-9104 Get Processing Options Response Data - alterações na tag 'AFL'; <p>Criadas as seguintes DGI:</p> <ul style="list-style-type: none"> • DGI-9102 Select Response Data VSDC VIS 1.5.4; <p>Retiradas as seguintes DGI:</p> <ul style="list-style-type: none"> • DGI-9110 "GPO Response Data for MSD Legacy - MSD"; • DGI-9111 "GPO Response Data for MSD CVN17 without ODA - MSD"; <p>Outras alterações:</p> <ul style="list-style-type: none"> • Tag '9F1F' passa a obrigatória nas Tabela 211 - DGI-0101 Track Data VISA; DGI-0102 Track Data VISA; DGI-0203 Track Data VISA. • Inclusão dos valores possíveis da Tag '9F68'. 	AF Desenvolvimento de Serviços
05.20	2014-09-17	<ul style="list-style-type: none"> • Inclusão da tag 9F5A na- DGI-9103 Select Response Data VISA Paywave VCPS 2.1.2; • Inclusão das tags BF63 e DF20 na - DGI-9102 PPSE ; • Atualização das secções 3.2.1 e 3.2.5.5.5, com a inclusão de informação sobre as versões 02 e 03 do PERS. 	AF Desenvolvimento de Serviços
06.00	2015-02-20	<ul style="list-style-type: none"> • Inclusão da nova especificação VISA Integrated Circuit Card Specification V1.5: secções 3.2.5.5.5; 3.2.5.5.5; 3.2.5.5.6 	AF Desenvolvimento de Serviços
06.10	2015-07-07	<ul style="list-style-type: none"> • Corrigida a nota B) na Tabela 247 - DGI-0302 <i>Unsigned Card Data</i> VISA. • Acrescentada nota à Tabela 284 - DGI-3F5B <i>Application Internal Data Template</i> - VIS, qVSDC, MSD. • Introdução do AFL Contact-Only VISA/Electron VIS 1.4.1 na Tabela 95 - DGI-9104 Get Processing Options Response Data e na Tabela 324 - DGI-9104 Get Processing Options Response Data. • Na Tabela 208 - Tabela de Combinação de DGI - PERS v3, a coluna DPA deixou de estar assinalada na linha DGI-9200, GENERATE AC Response Data AMEX. • Na Tabela 208 - Tabela de Combinação de DGI - PERS v3, a coluna DPA passou a estar assinalada na linha DGI-9200, GENERATE AC Response Data VISA. • Na Tabela 208 - Tabela de Combinação de DGI - PERS v3, a coluna DPA deixou de estar assinalada e a coluna CAP passou a estar assinalada, na linha DGI-9200, GENERATE AC Response Data MasterCard. • Outras alterações editoriais sem impacto na informação técnica. 	AF Desenvolvimento de Serviços

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07.00	2015-11-05	<p>Inclusão do detalhe que permite a emissão de cartões <i>contact-only</i> ou <i>contactless</i>, personalizados ou não personalizados, da marca MasterCard usando a especificação M/Chip Advance (versão 1.2), nomeadamente:</p> <p>Inclusão das seguintes DGIs:</p> <ul style="list-style-type: none"> • Tabela 233 - DGI-0202 <i>Signed Card Data MasterCard M/Chip Advance</i>; • Tabela 238 - DGI-0203 <i>Unsigned Card Data MasterCard Mchip Advance</i>; • Tabela 248 - DGI-0303 <i>ICC PK Cert</i>; • Tabela 249 - DGI-0304 <i>Static Authentication Data (Without Issuer PK Cert)</i>; • Tabela 250 - DGI-0305 <i>Dynamic Authentication Data (Without ICC PK Cert)</i>; • Tabela 251 - DGI-0306 <i>Issuer PK Cert</i>; • Tabela 287 - DGI-8001 DES UDK Keys <i>Contactless</i>; • Tabela 304 - DGI-8401 DES CVC3 Keys <i>M/Chip Advance Contactless</i>; • Tabela 311 - DGI-9102 PPSE - <i>Select PPSE Response Data M/Chip Advance</i>; • Tabela 312 - DGI-9102 - <i>Select Response Data M/Chip Advance</i>; • Tabela 336 - DGI-A001 <i>Alternate Select Response M/Chip Advance</i>; • Tabela 338 - DGI-A002 <i>Common Risk Management Parameters M/Chip Advance</i>; • Tabela 340 - DGI-A004 <i>Public Key Length</i>; • Tabela 345 - DGI-A007 <i>Application Status and ATC Limit</i>; • Tabela 347 - DGI-A008 <i>PIN Decipherments Error Counter Limit</i>; • Tabela 348 - DGI-A009 <i>Application Life Cycle Data</i>; • Tabela 349 - DGI-A012 <i>Contact Risk Management Parameters M/Chip Advance</i>; • Tabela 350 - DGI-A013 <i>Application Control M/Chip Advance Contact</i>; • Tabela 351 - DGI-A014 <i>Read Record Filter M/Chip Advance Contact</i>; • Tabela 352 - DGI-A015 <i>Card Issuer Action Codes M/Chip Advance Contact</i>; • Tabela 353 - DGI-A016 <i>ICC Dynamic Number Master Key M/Chip Advance Contactless</i>; • Tabela 354 - DGI-A017 <i>3DES Key Information M/Chip Advance Contact</i>; • Tabela 355 - DGI-A022 <i>Contactless Risk Management Parameters M/Chip Advance</i>; • Tabela 356 - DGI-A023 <i>Application Control M/Chip Advance Contactless</i>; • Tabela 357 - DGI-A024 <i>Read Record Filter M/Chip Advance Contactless</i>; • Tabela 358 - DGI-A025 <i>Card Issuer Action Codes M/Chip Advance Contactless</i>; • Tabela 359 - DGI-A027 <i>3DES Key Information M/Chip Advance Contactless</i>; • Tabela 361 - DGI-B002 <i>Log Configuration</i>; • Tabela 363 - DGI-B023 <i>IVCVC3 M/Chip Advance Contactless</i>; <p>Alterações às seguintes DGIs:</p> <ul style="list-style-type: none"> • Tabela 288 - DGI-8010 <i>Offline PIN</i>; • Tabela 324 - DGI-9104 <i>Get Processing Options Response Data</i>; 	AF Desenvolvimento de Serviços

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		<ul style="list-style-type: none"> • Tabela 337 - DGI-A002 <i>Persistent Data Elements M/Chip</i>; • Tabela 341 - DGI-A005 <i>Alternate Get Processing Options M/chip</i>; • Tabela 362 - DGI-B005 <i>Get Processing Options MasterCard PayPass</i>; <p>Atualização da Tabela 208 - Tabela de Combinação de DGI - PERS v3.</p> <p>Inclusão de alterações na DGI-0201, DGI-0202 e DGI-0203 decorrentes da evolução da emissão de cartões MasterCard e Maestro M/Chip 4, para CDA, nas seguintes tabelas:</p> <ul style="list-style-type: none"> • Tabela 36 - DGI-0201 <i>Signed Card Data MasterCard</i>; DGI-0202 <i>Signed Card Data MasterCard</i>; • Tabela 39 - DGI-0202 <i>Unsigned Card Data MasterCard</i>; DGI-0203 <i>Unsigned Card Data MasterCard</i>; • Tabela 129 - DGI-0201 <i>Signed Card Data MasterCard</i>; DGI-0202 <i>Signed Card Data MasterCard</i>; • Tabela 132 - DGI-0202 <i>Unsigned Card Data MasterCard</i>; DGI-0203 <i>Unsigned Card Data MasterCard</i>; • Tabela 228 - DGI-0201 <i>Signed Card Data MasterCard</i>; DGI-0202 <i>Signed Card Data MasterCard</i>; • Tabela 234 - DGI-0202 <i>Unsigned Card Data MasterCard</i>; DGI-0203 <i>Unsigned Card Data MasterCard</i>. <p>Ajustes no texto das seguintes seções:</p> <ul style="list-style-type: none"> • 3.2.5.5.4 Fatores que condicionam a existência das DGI • 3.2.5.5.5 Determinar DGI a Utilizar <p>Inclusão dos Anexo B e Anexo C.</p> <p>As alterações estão assinaladas a azul.</p> <p>Outras alterações editoriais sem impacto na informação técnica e não assinaladas.</p>	
07.10	2016-01-19	<p>Alteração da Tabela 233 - DGI-0202 <i>Signed Card Data MasterCard M/Chip Advance</i>.</p> <p>Inclusão da tag 9F6E nas seguintes DGI:</p> <ul style="list-style-type: none"> • Tabela 46 - DGI-0401 <i>Dynamic Authentication Data MasterCard Paypass</i> (versão 1 do PERS); • Tabela 139 - DGI-0401 <i>Dynamic Authentication Data MasterCard Paypass</i> (versão 2 do PERS); <p>Alteração do comprimento da tag 9F6E nas seguintes DGI:</p> <ul style="list-style-type: none"> • Tabela 312 – DGI-9102 - <i>Select Response Data M/Chip Advance</i>; (versão 3 do PERS); • Tabela 336 - DGI-A001 <i>Alternate Select Response M/Chip Advance</i>; (versão 3 do PERS); <p>Alteração das imagens dos Anexo B e Anexo C.</p>	AF Desenvolvimento de Serviços

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Interface para Personalizadores

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1 Introdução

A SIBS FPS é responsável por efetuar a emissão lógica cartões. Os ficheiros PERS e PINM são produzidos após a receção e processamento do ficheiro de emissão de cartões ELCB e enviados, em nome dos Emissores, aos Personalizadores com vista à produção física do cartão já gerado logicamente pela SIBS FPS e respetivas cartas de PIN para a personalização. A personalização dos cartões (emissão física do cartão) é, assim, feita nos Personalizadores.

O ficheiro PERS destina-se a dar suporte à personalização de todos os tipos de cartão emitidos pela SIBS FPS sendo um interface único para a emissão de produtos bancários e produtos não bancários, para qualquer Personalizador que os Emissores contratem.

O ficheiro para a emissão de cartas de PIN, o PINM, contém toda a informação necessária à execução de cartas PIN em qualquer Personalizador.

O ficheiro CPER é enviado à SIBS FPS pelos Personalizadores que adiram a esta nova funcionalidade, com informação sobre o resultado da personalização e expedição de cartões, ficando estes armazenados na base de dados da SIBS FPS que disponibiliza aos Emissores, a possibilidade de consulta desta informação de forma integrada e num interface único. A adesão dos Personalizadores a esta nova funcionalidade não é obrigatória mas é recomendada, de forma a permitir um serviço mais completo e consolidado aos Emissores.

2 Diagrama Funcional Global

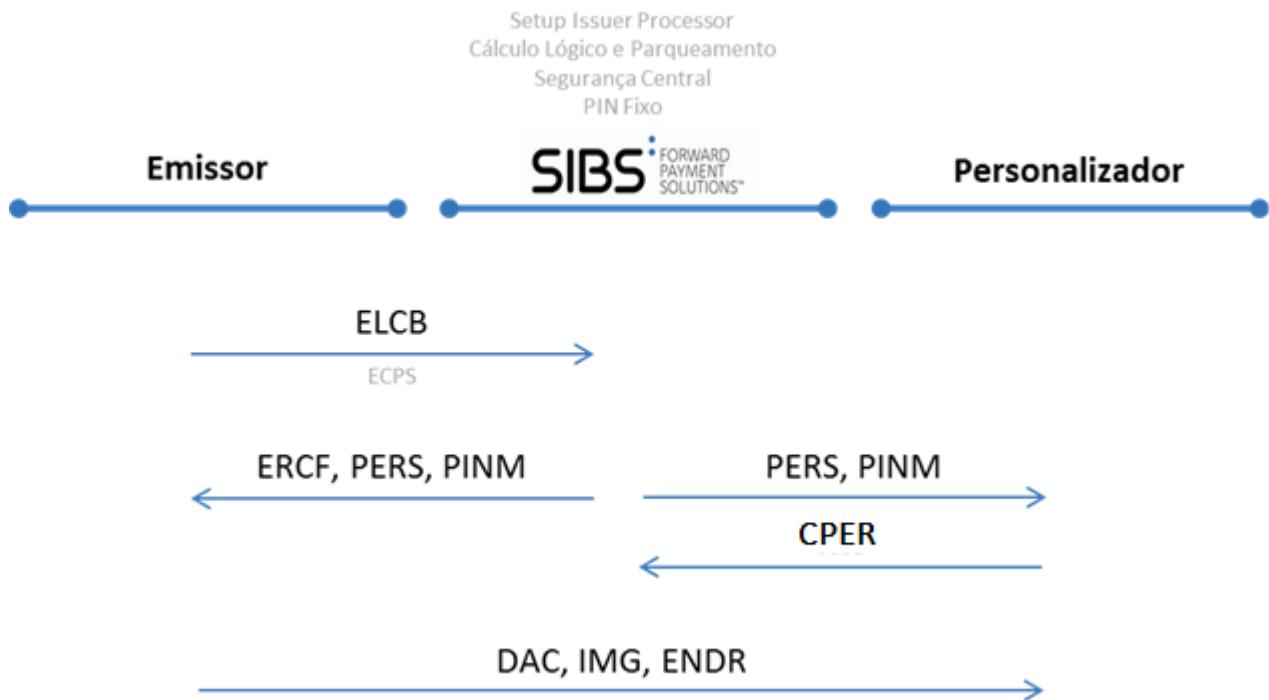


Figura 1 - Diagrama funcional global do fluxo de emissão lógica e física dos cartões e cartas PIN

Legenda:

- ELCB - Ficheiro de Emissão Lógica de Cartões Bancários;
- ECPS - Ficheiro de Emissão de Cartões com Processamento SIBS FPS;
- ERCF - Ficheiro de Erros e Confirmações;
- PERS - Ficheiro de Personalização de Cartões;
- PINM - Ficheiro de Suporte à Emissão de PINs e respectivas Cartas;
- DAC - Ficheiro de Dados Adicionais;
- IMG - Ficheiro de Imagens;
- ENDR - Ficheiro de Dados de Endereçamento;
- CPER – Ficheiro de Resposta ao Ficheiro de Personalização de Cartões.

3 Especificações Técnicas

3.1 Metodologia de Segurança

De acordo com as “*Common Personalization Specifications*”, devem ser estabelecidos canais seguros para o Transporte da Informação contida nos Ficheiros de Personalização.

Para além da segurança das comunicações é necessário proteger a informação ao nível aplicacional. Este documento aborda as especificidades da segurança aplicacional com impacto no Ficheiro de Personalização entre a SIBS FPS e os Personalizadores.

Existe um conjunto de *Transport Keys* (designadas genericamente por TKs) definidas para proteção dos dados do Ficheiro de Personalização e que proporcionam proteção para confidencialidade e integridade.

As TKs estão embebidas no PERS, cifradas por uma ZCMK (de nível superior), a qual é conhecida simultaneamente pela entidade que envia o Ficheiro de Personalização (SIBS FPS) e pela entidade que o recebe (Emissor / Personalizador).

Na ***data for perso device*** de cada Aplicação *chip* são identificadas as DGI cifradas por cada TK.

As TKs devem ser conhecidas simultaneamente pela entidade que envia o Ficheiro de Personalização (SIBS FPS) e pela entidade que o recebe (Emissor e/ou Personalizador). Por imposição dos Sistemas de Pagamento, as Chaves de Transporte (ZCMKs) entre SIBS FPS e os Personalizadores são distintas de Emissor para Emissor.

3.1.1.1 Proteção da Confidencialidade

A proteção da confidencialidade dos dados consiste em cifrar a informação crítica no Ficheiro de Personalização.

Existem três categorias de dados que envolvem proteções da confidencialidade com chaves e algoritmos diferenciados.

Tabela 1 - Categorias de dados que envolvem proteções com chaves e algoritmos diferenciados

Categorias	Chave (TK)	Padding	Algoritmo
PINs	KS PIN	ISO PBF 03 ¹	ECB
Chaves			
• Chaves 3DES de Cartão	KS KEY	Sem Padding	ECB
• Chaves RSA e constantes CRT	KS KEY	Padding 80[00] ²	ECB

¹ Format 03 da norma ISO 9564 " Banking — Personal Identification Number management and security PIN Block" Format 03.

² Padding method 2 da Norma ISO/IEC 9797-1 Information Technology- Security Techniques - Message Authentication Codes (MACs).

Categorias	Chave (TK)	Padding	Algoritmo
Dados críticos (ex.: CVV, PAN e Data de Expiração)			
• MICs com dados críticos	KS CIF	Padding 80[00]*	CBC
• DGI do MIC de <i>chip</i> com dados críticos	KS CIF	Padding 80[00]*	ECB

A Cifra faz-se por MIC ou DGI no caso dos dados *chip*. Um MIC ou uma DGI protegida por cifra têm todos os dados cifrados com exceção da identificação do MIC ou da DGI, do comprimento e do campo MAC, caso existam.

É necessário ainda garantir que um MIC ou DGI cifrado tenha um número múltiplo de 8 *bytes*. Para tal foram criados os campos de *padding*.

3.1.1.2 Proteção da Integridade

A proteção dos dados para Integridade consiste em, para cada MIC ou Aplicação *chip*, calcular um MAC sobre todo o conjunto dos dados envolvidos.

Algoritmo de cálculo do MAC:

- Calcula-se um valor de *hash*, com o algoritmo SHA-1 de acordo com a norma *Secure Hash Standard FIPS PUB 180-1*, sobre os dados compreendidos entre os seguintes campos:
 - LAPPL (início da Tabela 19), inclusive;
 - MACkey (final da Tabela 21), exclusive;
- Calcula-se o MAC sobre o resultado anterior com o *Padding method 2* e algoritmo 3 da norma ISO 9797 fazendo uso da chave KS MAC:
 - *Padding method 2* da norma ISO/IEC 9797-1: com 80 e 3x00
 - Algoritmo 3 da norma ISO/IEC 9797-1: *single DES CBC* com exceção do último bloco que é com 3DES.
 - O MAC são os 4 *bytes* mais à esquerda (4 MSB's) do resultado anterior.

Nota: O MAC é realizado ao conteúdo integral do MIC, designação do MIC e dimensão incluídas.

3.1.1.3 Proteção da Confidencialidade e Integridade

Quando um MIC ou uma DGI é protegida quanto à confidencialidade e integridade é necessário definir a ordem pelo qual são aplicados estes mecanismos.

Quem protege deve primeiro cifrar e sobre este resultado calcular o MAC.

Na receção deve ser validado o MAC sobre o texto cifrado e depois decifrar o texto.

3.2 Ficheiro PERS

O desenho do ficheiro PERS segue de perto as especificações EMV *Card Personalization Specification* (1) e inclui parte da nomenclatura aí utilizada.

A informação nele contida encontra-se compartimentada por MICs (*Module Identification Code*), sendo estes divididos por linhas distintas no ficheiro. Esta divisão é feita tendo em conta se a aplicabilidade de cada MIC é relativa à produção no seu todo, ou a cada cartão a personalizar. A informação em cada Módulo é composta por:

- MIC (*Module Identification Code*): Identificador do Módulo.
- MIC *length*: Dimensão dos dados relativos ao Módulo.
- MIC *data*: Conjunto de dados relativos ao Módulo.

A estrutura aplicada ao campo MIC é a seguinte:

- Designação do MIC 3 bytes; Versão do MIC 1 byte; Total 4 bytes (a norma prevê de 1 a 7 bytes);
- Dimensão do MIC 7 bytes (de acordo com a norma);

Nota: a opção de apenas utilizar 4 dos 7 bytes possíveis para a designação do MIC tem a ver com a metodologia de segurança a utilizar (descrita em ponto específico) e visa possibilitar a utilização desta quer para os MICs sujeitos a cifra quer para as TAG sujeitas a cifra (presentes nas aplicações *chip* e cuja dimensão é de 4 bytes).

As figuras seguintes representam a estrutura do Ficheiro de Personalização de acordo com a metodologia referida.

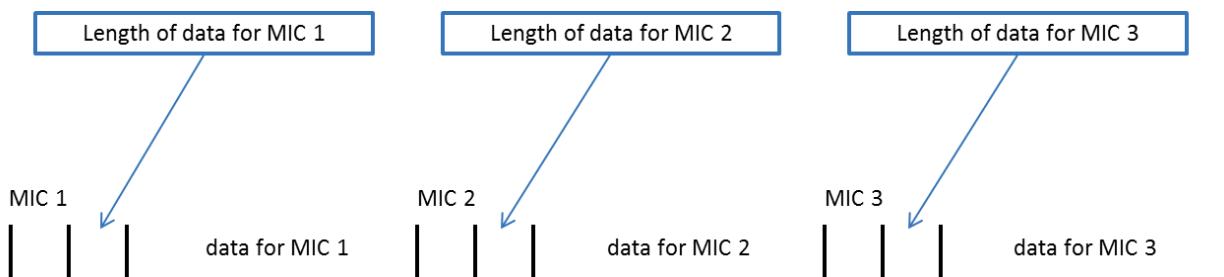


Figura 2 - Estrutura do Ficheiro de Personalização de Cartões - ficheiro PERS

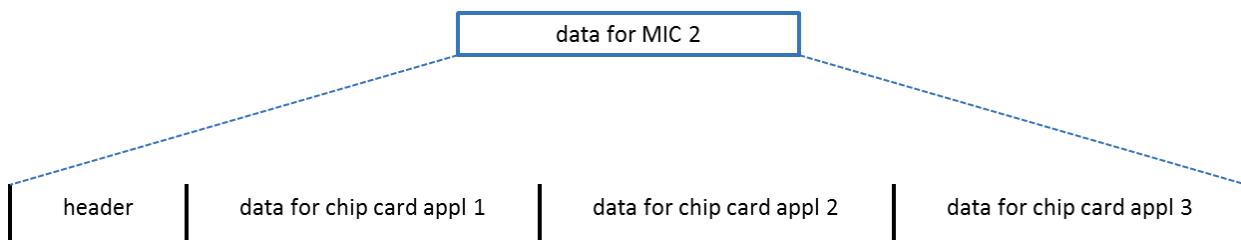


Figura 3 - Detalhe do bloco "data for MIC 2"

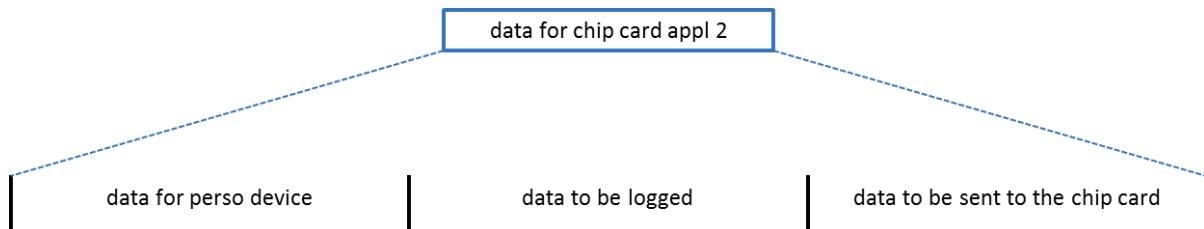


Figura 4 - Detalhe do bloco "data for chip card appl 2"

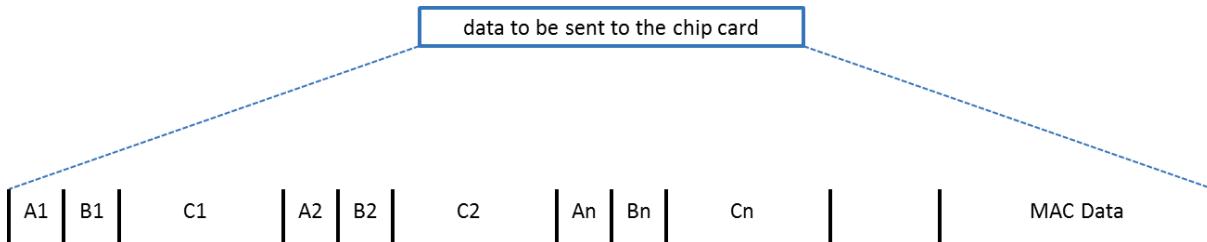


Figura 5 - Detalhe do bloco "data to be sent to the chip card"

Legenda:

- A1 - Tag of step #1 data;
- B1 - Length of step #1 data;
- C1 - Value of step #1 data;
- A2 - Tag of step #2 data;
- B2 - Length of step #2 data;
- C2 - Value of step #2 data;
- An - Tag of step #n data;
- Bn - Length of step #n data;
- Cn - Value of step #n data;

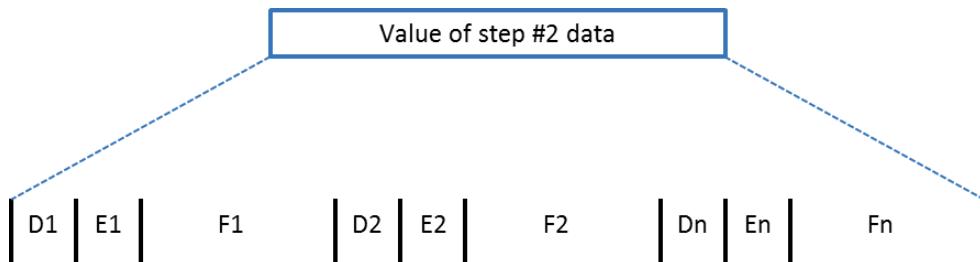


Figura 6 - Detalhe do bloco "value of step #2 data"

Legenda:

- D1 - DGI of data group #1 data;
- E1 - Length of data group #1 data;
- F1 - Value of data group #1 data;
- D2 - DGI of data group #2 data;

E2 - Length of data group #2 data;

F2 - Value of data group #2 data;

Dn - DGI of data group #n data;

En - Length of data group #n data;

Fn - Value of data group #n data.

A estrutura do registo detalhe, mesmo quando este não é relativo a dados de chip, tem também como base o EMV CPS v1.1. Dentro de cada registo de detalhe, os diferentes dados remetidos estão divididos por MIC correspondendo estes às várias componentes da Personalização do Cartão. Assim, para cada cartão a personalizar existe um conjunto de registos ordenados de forma sequencial (dois ou três consoante o cartão tenha *chip* ou não):

- Um registo de Identificação de Cartão;
- Um registo Personalização Dados não *Chip*;
- Um registo de Personalização Dados *Chip* (se aplicável).

O número de registos de cada um dos tipos de detalhe é igual ao número de cartões a personalizar.

Esta estrutura, em que se divide a informação de cada cartão por diferentes linhas, pretende por um lado minimizar o tamanho máximo de cada registo, e por outro estruturar os dados de forma a facilitar a respetiva manipulação.

O tamanho máximo do registo é variável pois depende do número de aplicações que o *chip* contém.

A organização do ficheiro PERS obedece ao seguinte desenho:

- Um registo (ou linha) de inicialização (*header*);
- Um registo (ou linha) de Parâmetros da Produção;
- Um registo (ou linha), por cartão, relativa à Identificação do Cartão e às características da personalização;
- Um registo (ou linha), por cartão, relativa à Personalização Dados não *Chip* (gráfica, pistas magnéticas, envelopagem, etc.);
- Um registo (ou linha), por cartão, relativa à Personalização Dados do *Chip* e respetivas aplicações;
- Um registo (ou linha) de finalização (*trailer*).

Quadro resumo da estrutura:

Tabela 2 - Quadro resumo da estrutura do ficheiro PERS

Registros	Módulos (MIC)	MIC / Len	Âmbito
Inicial	Módulo Header	HDR1 / 0000049	Produção
Parâmetros da Produção	Módulo Parâmetros Módulo Contentor Produção Módulo Template Chaves Módulo Format Keys	PAR1 / 0000045 CTP1 / 0000050 CHV1 / 0000124 FTK1 / var	Produção
Identificação do Cartão	Módulo Identificação Registo Módulo Identificação Cartão Módulo Contentor Cartão	IDE1 / 0000017 PAN1 / 0000040 CTC1 / 0000200	Cartão

Registros	Módulos (MIC)	MIC / Len	Âmbito
Personalização - Dados não Chip	Módulo Personalização Gráfica Módulo Personalização Pistas Módulo Personalização Conta/Agência Módulo Personalização Envelopagem	GRF1 / 0000128 PST1 / 0000232 CNT1 / 0000048 END1 / 0000440	Cartão
Personalização - Dados Chip	Módulo Personalização Chip	CHP / var	Cartão
Final	Módulo Trailer	TRL / 0000008	Produção

3.2.1 Registo Inicial

O registo inicial é composto pelo MIC HDR1 e corresponde ao registo de inicialização do ficheiro PERS.

Tabela 3 - Módulo de *Header* - MIC HDR1

MIC	HDR1				
LENGTH	0000049				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
0101	FIC_APL_ID1	Aplicação	1	A	'M'
0102	FIC_NOMN01	Nome do Ficheiro	4	A	'PERS'
0064	FIC_VER	Versão do Ficheiro	2	N	D)
0327	COM_NUM (ORIGEM)	Identificação de Comerciante/Empresa	7	N	A)
0327	COM_NUM (DESTINO)	Identificação de Comerciante/Empresa	7	N	B)
0061	FIC_SEQN01	Identificação do Ficheiro	11	N	C)
0062	FIC_SEQN01_ULT	Identificação do Ficheiro Anterior	11	N	C)
0233	EXT_MOECOD	Código de Moeda	3	N	
0226	EXT_CTYCOD	Código de País	3	N	

- A) Nº Comerciante SIBS FPS;
- B) Nº Comerciante Personalizador;
- C) Formato: AAAAMMDDSSS.
- D) Valores possíveis: '01', '02' ou '03'.

3.2.2 Registo de Parâmetros da Produção

O registo Parâmetros de Produção contém o setup de informação relativa à produção a que este respeita, e as chaves de segurança aplicáveis à informação presente no ficheiro. Este registo é composto por quatro (4) MIC (Módulos):

- Módulo de Parâmetros - MIC PAR
- Módulo Contentor de Produção - MIC CTP
- Módulo *Template Chaves* - MIC CHV

- Módulo Format Keys - MIC FTK

Este registo inicia-se pelo módulo PAR.

3.2.2.1 Módulo de Parâmetros - MIC PAR

Tabela 4 - Módulo de Parâmetros - MIC PAR

MIC	PAR1				
LENGTH	0000045				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
4306	SIS_EMITIP	Tipo de Emissor	1	A	
0344	CAR_EMICOD	Código de Emissor	7	N	
3252	FIC_NOMN01_ORI	Ficheiro Original	4	A	'ELCB', 'ECPS'
0061	FIC_SEQN01	Identificação do Ficheiro	11	N	A)
5510	CAR_PRSQNT	Número de Cartões/Cartas a Personalizar	6	N	
0222	SPI_IDE	Sistema de Pagamento	1	A	
2055	CAR_TECCOD	Tecnologia do Cartão	1	N	
2075	CAR_TECEMV	Tecnologia do Chip EMV	1	A	
5472	CAR_TECEMV_CTL	Tecnologia Contactless	1	A	
5326	CAR_IDEPTRS	Identificação do Personalizador	3	N	
5511	EFT_IDE_PRS	Endereço File Transfer Ficheiro Personalização	8	A	
1590	CAR_URGIND	Indicador de Urgência	1	N	

A) Formato: AAAAMMDDSSS.

Nota: Quando o indicador de urgência indicar que se trata de uma produção prioritária o nome externo do ficheiro (ao nível do file transfer) faz referência a tal, sendo então "PERSU".

3.2.2.2 Módulo Contentor de Produção - MIC CTP1

O MIC CTP apresenta a informação combinada entre o Emissor e o Personalizador relativa às características da personalização a que o ficheiro respeita. Este não é alvo de processamento pela SIBS FPS, pelo que se trata de uma transposição direta do ficheiro de emissão.

Tabela 5 - Módulo Contentor de Produção - MIC CTP

MIC	CTP1				
LENGTH	0000050				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
4285	EXT_INFPRS	Info para o Personalizador (Parâmetro)	50	A	A)

A) Contentor parâmetros.

3.2.2.3 Módulo Template Chaves - MIC CHV

O módulo CHV é um repositório de chaves de cifra do Ficheiro, com a indicação da respetiva identificação, para que estas possam ser usadas para a proteção das diversas estruturas.

Este módulo identifica primeiro a chave ZCMK, partilhada entre o Emissor e o Personalizador, chave que protege as restantes chaves de transporte.

A restante informação presente no módulo é constituída pelo conjunto de chaves de transporte, cada uma antecedida pelo identificador pela qual é referenciada a chave.

Tabela 6 - Módulo Template Chaves - MIC CHV1

MIC	CHV1			
LENGTH	0000124			
Nº	Sigla	Comp.	Rep.	Observações
7736	CHV_ZCMK_IDTK	12	H	"Fbbbbbbbkkkkkkkkkkavv"
7737	CHV_KSPIN_IDTK	12	H	'FFFFFF4B5350494E000001'
7738	CHV_KSPIN	16	H	ZCMK(KSPIN)
7739	CHV_KSKEY_IDTK	12	H	'FFFFFF4B534B4559000001'
7740	CHV_KSKEY	16	H	ZCMK(KSKEY)
7741	CHV_KSCIF_IDTK	12	H	'FFFFFF4B53434946000001'
7742	CHV_KSCIF	16	H	ZCMK(KSCIF)
7743	CHV_KSMAC_IDTK	12	H	'FFFFFF4B534D4143000001'
7744	CHV_KSMAC	16	H	ZCMK(KSMAC)

Notas:

- O campo ZCMK_IDTK identifica a ZCMK usada para proteger as TK. Deve ser distinta de Emissor para Emissor. A estrutura do ZCMK_IDTK é a seguinte:

Tabela 7 - Estrutura do Campo ZCMK_IDTK

Campo	Dimensão	Formato	Conteúdo	Descrição
Padding	1	H	'F'	
Issuer Code	7	H		Código de Identificação do Emissor (Banco ou Entidade) justificado à direita e com padding a zeros à esquerda. Utiliza-se o Código de Comerciante
Padding	13	H	'0000000000000'	
Ambiente	1	H	0 - Teste 1 - Produção	Ambiente
TK Version	2	H		Versão da ZCMK usada
Total	24	H		
	12	Binary		

- Os campos KS_IDTK identificam as TK (Transport Keys) utilizadas para proteger as DGI do MIC *chip* ou proteger os restantes MICs do PERS. A estrutura dos KS_IDTK é a seguinte:

Tabela 8 - Estrutura do Campo KS_IDTK

Campo	Dimensão	Formato	Conteúdo	Descrição
Padding	4	H	'FFFFFFFF'	
TK	5	H	'4B5350494E' ("KSPIN" Ascii) '4B534B4559' ("KSKEY" Ascii) '4B53434946' ("KSCIF" Ascii) '4B534D4143' ("KSMAC" Ascii)	TK
TK Version	3	H	'000001'	Versão da TK

12

3.2.2.4 Módulo Format Keys - MIC FTK

O módulo FTK é uma estrutura que define quais os MICs que estão protegidos, de que modo, e com que chaves de Cifra Cartão.

Este MIC é constituído por quatro estruturas de "formatos de proteção". Estas estruturas são uma adaptação das que são definidas pelo *standard* EMV CPS para proteção das DGI do módulo *chip*. A adaptação vai no sentido de definir quais os MICs que estão protegidos por cada mecanismo de proteção.

A primeira estrutura de "formato de proteção" define a proteção de confidencialidade definindo:

- A identificação da chave;
- O tipo de proteção;
- O algoritmo;
- A lista de MICs ao abrigo desta proteção.

A segunda estrutura define, de uma forma similar, a proteção de integridade.

A configuração atual pode vir a ser adaptada no futuro.

Tabela 9 - Módulo Format Keys - MIC FTK

MIC	FTK1			
LENGTH	Var			
Nº	Sigla	Comp.	Rep.	Obs.
7745	CHV_FOR_TK	1	H	'F0'
Proteção de confidencialidade de dados críticos (KSCIF)				
7746	CHV_IDTK	12	H	'FFFFFFFF4B53434946000001'
7747	CHV_TIP_TK	1	H	'20'
7748	CHV_CMODE_TK	1	H	'11'
7749	CHV_NUMMIC_TK	1	H	'03'
7750	CHV_MIC_TK	Var*	H	"GRF1", "PST1", "PAN1"

MIC	FTK1			
LENGTH	Var			
Nº	Sigla	Comp.	Rep.	Obs.
Proteção de integridade (KSMAC)				
7746	CHV_IDTK	12	H	'FFFFFFFF4B534D4143000001'
7747	CHV_TIP_TK	1	H	'A0'
7748	CHV_CMODE_TK	1	H	'11'
7749	CHV_NUMMIC_TK	1	H	'01'
7750	CHV_MIC_TK	Var*	H	"END1"

(*) Dimensão igual ao Nº MICs x 4 bytes.

3.2.3 Registo de Identificação de Cartão

O registo de Identificação do Cartão é composto por três MICs que contêm a informação necessária para a identificação do cartão, e que definem as características da personalização/expedição combinadas entre o Emissor e o Personalizador.

Este registo inicia-se pelo módulo IDE, que transporta uma chave do registo original (chave alternativa ao PAN e não cifrada) para efeitos de emparelhamento de dados adicionais, ou de seleção de registos para uma eventual necessidade de reordenação.

Existem tantos registos de Identificação de Cartão quantos os cartões a personalizar.

3.2.3.1 Módulo Identificação do Registo - MIC IDE

Tabela 10 - Módulo Identificação do Registo - MIC IDE

MIC	IDE1			
LENGTH	0000017			
Nº	Sigla	Nome	Comp.	Rep.
0061	FIC_SEQN01	Identificação do Ficheiro	11	N
5512	FIC_REGNUMN02	Sequência do Registo de Emissão	6	N

3.2.3.2 Módulo Identificação Cartão - MIC PAN

Tabela 11 - Módulo Identificação Cartão - MIC PAN

MIC	PAN1			
LENGTH	0000040			
Nº	Sigla	Nome	Comp.	Rep.
2324	CAR_PANLGT	Comprimento do PAN	2	N
2325	CAR_PAN	Primary Account Number	19	N

MIC	PAN1				
LENGTH	0000040				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
0126	CAR_EXPDATN02	Data de Expiração do Cartão	4	N	
	PADDING		7	H	A)
7752	CHV_MACMIC		8	H	B)

- A) Valor '8000000000000000';
- B) Não implementado nesta fase.

3.2.3.3 Módulo Contentor Cartão - MIC CTC

Apresenta a informação combinada entre o Emissor e o Personalizador relativa às características da personalização de cada cartão. Este não é alvo de processamento pela SIBS FPS, pelo que se trata de uma transposição direta do ficheiro de emissão.

Tabela 12 - Módulo Contentor Cartão - MIC CTC

MIC	CTC1				
LENGTH	00000200				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
4286	EXT_INFPRSA01	Info para o Personalizador (Detalhe)	200	A	A)

- A) Contentor Cartão.

3.2.4 Registo Personalização Dados não Chip

O registo de personalização de cartão - Dados não *Chip* - inclui a informação gráfica, as pistas magnéticas, e os dados de endereçamento se estes não forem remetidos de forma individualizada.

É assim composto por quatro MICs, cifrados (MIC GRF1, MIC PST1, MIC CNT1 e MIC END1), e inicia-se pelo MIC GRF1.

Existem tantos regtos de personalização de cartão, quantos os cartões a personalizar.

3.2.4.1 Módulo Personalização Gráfica - MIC GRF1

Tabela 13 - Módulo Personalização Gráfica - MIC GRF1

MIC	GRF1				
LENGTH	00000128				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
2324	CAR_PANLGT	Comprimento do PAN	2	N	

MIC	GRF1				
LENGTH	00000128				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
2325	CAR_PAN	Primary Account Number	19	N	
0126	CAR_EXPDATN02	Data de Expiração do Cartão	4	N	A)
0200	CAR_TITNOM	Nome do Titular	40	A	B)
0200	CAR_TITNOM (2)	Nome do Titular	40	A	
0508	CAR_CVVCV2	CVV2/CVC2/3CSC "Card Validation Value2"	3	N	C)
4154	CAR_CSCEMB	Código de Segurança 4CSC - Embossing	4	N	D)
	PADDING		8	H	E)
7752	CHV_MACMIC		8	H	F)

- A) Formato: AAMM;
- B) Limitado a 27A para cartões de âmbito SPI;
- C) Preenchido com CVV2/CVC2/3CSC. Estes dados estão impressos na parte de trás do cartão;
- D) Preenchido com 4CSC (apenas para cartões AMEX); este dado está impresso na frente do cartão;
- E) Valor: '8000000000000000';
- F) Não implementado nesta fase.

3.2.4.2 Módulo Pistas - MIC PST

Tabela 14 - Módulo Pistas - MIC PST

MIC	PST1				
LENGTH	0000232				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
1918	CAR_PS1	Pista 1	76	A	
0832	CAR_PS2	Pista 2	37	A	
0106	CAR_PS3	Pista 3	104	N	
	PADDING		7	H	A)
7752	CHV_MACMIC		8	H	B)

- A) Valor: '8000000000000000';
- B) Não implementado nesta fase.

3.2.4.3 Módulo Identificação Conta/Agência - MIC CNT

Tabela 15 - Módulo Identificação Conta/Agência - MIC CNT

MIC	CNT1				
LENGTH	0000048				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
0134	BAN_AGECD	Código da Agência	4	N	
0132	SAN_NUM	Número da Conta (SAN1, SAN2 ou outra)	15	N	A)
0132	SAN_NUM	Número da Conta (SAN1, SAN2 ou outra)	15	N	B)
	PADDING		6	H	C)
7752	CHV_MACMIC		8	H	

- A) Valor: SAN1;
- B) Valor: SAN2;
- C) Valor: '80000000000000'.

Observação: Só é cifrado se for apresentado esse requisito.

3.2.4.4 Módulo Personalização Envelopagem - MIC END

Este módulo contém o conjunto de dados de endereçamento rececionados via ficheiro de emissão (ECPS; ELCB) para efeitos de expedição. Estes não são alvo de qualquer processamento pela SIBS FPS, pelo que se trata de uma transposição direta.

Caso o Emissor opte por remeter estes dados diretamente ao Personalizador este módulo não faz parte do ficheiro de personalização dado que não são rececionados no ficheiro de emissão.

Tabela 16 - Módulo Personalização Envelopagem - MIC END

MIC	END1				
LENGTH	0000440				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
5552	CAR_TITNOMA01	Nome do Titular	70	A	
5552	CAR_TITNOMA01 (2)	Nome do Titular	70	A	
5550	CLI_MORA01	Morada Cliente	70	A	
5550	CLI_MORA01 (2)	Morada Cliente	70	A	
4470	CLI_LOCA01	Localidade	35	A	
0083	CLI_CODPST	Código Postal	8	A	
4462	CLI_LOCPOSTA01	Localidade Postal	40	A	
0226	EXT_CTYCOD	Código de País	3	N	
3371	EXT_DSGCTY	Designação do Código de País	60	A	
	PADDING		6	H	A)
7752	CHV_MACMIC		8	H	

A) Valor: '80000000000000'.

3.2.5 Registo Personalização - Dados *Chip*

A estrutura de dados no interior do MIC *Chip* respeita as especificações CPS (1), (4) e (12). Mesmo assim, optou-se por detalhá-la nas secções seguintes deste documento, pois isso permite identificar quais os campos que serão efetivamente utilizados e quais os que irão ser preenchidos com valores nulos (respeitando apenas a estrutura).

A estrutura do MIC *Chip* divide-se em:

- *Header MIC Chip*:
 - Dados comuns às várias Aplicações *chip*.
- *Data for chip card appl*:
 - Dados específicos para cada uma das aplicações existentes no *chip*. Por exemplo:
 - VISA / VISA ELECTRON;
 - MasterCard / Maestro;
 - AMEX;
 - CAP / DPA;
 - MB;
 - (outras);

Para cada Aplicação *Chip* (*Data for chip card appl*) pode ainda subdividir-se em:

- *Data for perso device*:
 - Dados/Instruções de Processamento para o Programa de Personalização.
 - Não para serem escritos no Cartão-*Chip*.
- *Data to be logged*:
 - Indicação dos Dados a retornar da Personalização para esta Aplicação. Não se prevê utilizar esta estrutura nesta versão da especificação, sendo os Dados a retornar da Aplicação definidos localmente no *Setup* dos Equipamentos de Personalização.
- *Data to be sent to the chip card*:
 - Dados a serem efetivamente gravados no *chip* para cada Aplicação.
 - MAC *data*: sobre os Dados a gravar no *chip* para cada aplicação é calculado um MAC, que no Ficheiro PERS se coloca imediatamente a seguir aos referidos dados, em conjunto com a Chave utilizada para cálculo desse MAC. Esta Chave vem Cifrada pela Chave de Transporte ZCMK.

Tabela 17 - Estrutura do MIC Chip

Header MIC Chip											
	Section 1										
	Section 2										
Data for chip card appl #1											
Data for chip card appl #2											
data for perso device <table border="1"> <tr> <td>Section (2+n)</td> </tr> <tr> <td>Section (2+n) a1</td> </tr> <tr> <td>Section (2+n) a2</td> </tr> </table> data to be logged <table border="1"> <tr> <td>Section (2+n) b</td> </tr> </table> data to be sent to the chip card <table border="1"> <tr> <td>Section (2+n) c</td> </tr> <tr> <td>Processing Steps data</td> </tr> <tr> <td>DGI Grouping</td> </tr> <tr> <td>Section (2+n) d</td> </tr> <tr> <td>MAC data</td> </tr> </table>			Section (2+n)	Section (2+n) a1	Section (2+n) a2	Section (2+n) b	Section (2+n) c	Processing Steps data	DGI Grouping	Section (2+n) d	MAC data
Section (2+n)											
Section (2+n) a1											
Section (2+n) a2											
Section (2+n) b											
Section (2+n) c											
Processing Steps data											
DGI Grouping											
Section (2+n) d											
MAC data											
Data for chip card appl #3											

3.2.5.1 Header MIC Chip

O Header MIC Chip contém os Dados que são comuns às várias Aplicações Chip:

- **VNL**: Versão do Formato de Registo DETALHE ((2) e (4) e (12)).
- **CRN** - RID (*Registered Application Provider Identifier* - Identificador do Fornecedor da Aplicação Registada) das aplicações mais prioritárias.
- **STATUSCOLL** - RFU (*Collator Status*)
- **NUMBERPID** - Número de IDVCs identificadores do perfil.
- **AIDs** - AIDs das Aplicações EMV (incluindo sufixos se existirem).

Tabela 18 - Detalhe Header MIC Chip

Header MIC Chip					
Section 1	Name	Dim.	Form.	Cont.	Description
	MIC Chip	4	ASCII	descrito nas secções anteriores deste documento.	Module Identification Code do Chip
	LCCA	7	ASCII		Length for IC Card Application Data
Section 2	Name	Dim.	Form.	Cont.	Description
	VNL	4	ASCII	"02.2"	Version Number of this Layout
	ldata	2	H		Length from LHDR
	LHDR	2	H		Length of Header Data for ICC Applications
	LCRN	2	H	"0005"	Length of the CRN (CAMS Reference Number)
	CRN	5	H	RID	RID (Registered Application Provider Identifier) of more Priority Application.
	STATUSCOLL	2	ASCII	"00"	RFU (Collator Status)
	NUMBERPID	1	H	"00"	Number of Profile Identifiers IDVC
	COUNTAID	1	H		Count of AIDs that follow
	LAIDi (*)	1	H	"05"-“10” (5decimal-16decimal)	Length of AID for Application #i
	AIDi (*)	5-16	H		AID for Application #i (including the Sufix, if it exists)

(*) Estes campos repetem-se COUNTAID vezes.

3.2.5.2 Data For Perso Device

Contém, para cada Aplicação *chip*, dados e instruções de processamento destinados ao funcionamento do programa de personalização. Não são para serem gravados no Cartão:

- **AID** dessa Aplicação *chip* (incluindo o Sufixo, se existir).
- **TKDATA**: Identificação das TKs envolvidas para essa Aplicação.
- **IDOWNER**: Proprietário da especificação dessa Aplicação. VISA, MasterCard.
- **PS (Processing Steps)**. Embora a especificação CPS preveja outros, apenas se utiliza o *Processing Step “Personalisation”* (“EF”).
- **PDI (Processing Device Instructions)**. Informação de Controlo. Não se prevê usar esta estrutura nesta versão da especificação.

Tabela 19 - Detalhe data for chip - Card Appl #2

data for chip card appl #2					
data for perso device					
Section (2+n)	Name	Dim.	Form.	Cont.	Description
	LAPPL	2	H		Length of the Data for ICC Application #1
Section (2+n)a1	Name	Dim.	Form.	Cont.	Description
	LPDD1	1	H		Length of Personalisation Device Data - Part 1
	LAID1	1	H		Length of AID for Application #1 "10"-“32”
	AID1	5-16	H		AID for Application #1 (including the Sufix, if it exists)
	LTK	1	H		Length of TK fields that follow
	FORMATTK	1	H	“01”	Format of TK fields that follow
	TKDATA Entry 1				Ks PIN (PIN Transport Key)
	IDTK1	12	H	‘FFFFFFFF4B5350494E000001’	IDTK1 Identificador da KSPIN Ver detalhes abaixo.
	TYPE TK1	1	H	“20”	Type TK1 Description
	CMODE TK1	1	H	“11”	Encryption algorithm for TK1
	Nb. DGIs TK1	1	H	“01”	Number of DGIs in the following list
	DGIs TK1	2	H	“8010”	List of DGIs encrypted under TK1
	TKDATA Entry 2				Ks KEY (Key Transport Key)
	IDTK2	12	H	‘FFFFFFFF4B534B4559000001’	IDTK2 Identificador da KSKEY Ver detalhes abaixo.
	TYPE TK2	1	H	“20”	Type TK2 Description
	CMODE TK2	1	H	“11”	Encryption algorithm for TK2
	Nb. DGIs TK2	1	H		Number of DGIs in the following list
	DGIs TK2		H	“8000” “8001” “8101” “8102” “8103” “8104” “8201” “8202” “8203”	List of DGIs encrypted under TK2 (Universo de DGI possíveis de Encriptação por esta TK. Caso a caso há que determinar as DGI a incluir, de acordo com a coluna respetiva na Tabela de Combinação de DGI))

data for chip card appl #2					
data for perso device					
				"8204" "8205" "8301" "8302" "8303" "8304" "8305" "8400"	
	TKDATA Entry 3		H		Ks CIF (Cif Transport Key)
	IDTK3	12	H	'FFFFFFFF4B53434946000001'	IDTK3 Identificador da KSCIF Ver detalhes abaixo.
	TYPE TK3	1	H	"A0"	Type TK3 Description
	CMODE TK3	1	H	"10"	Encryption algorithm for TK3
	Nb. DGIs TK3	1	H		Number of DGIs in the following list
	DGIs TK3		H	"0101" "0102" "0201" "0202" "0203" "0301" "0E01" "3212"	List of DGIs encrypted under TK3 (Universo de DGI possíveis de Encriptação por esta TK. Caso a caso há que determinar as DGI a incluir e cifrar, de acordo com a coluna respetiva na Tabela de Combinação de DGI))
	TKDATA Entry 4		H		Ks MAC (MAC Transport Key)
	IDTK4	12	H	'FFFFFFFF4B534D4143000001'	IDTK4 Identificador da KSMAC Ver detalhes abaixo.
	TYPE TK4	1	H	"A0"	Type TK4 Description
	CMODE TK4	1	H	"10"	Encryption algorithm for TK4
	Nb. DGIs TK4	1	H	"00"	Number of DGIs in the following list
Section (2+n)a2	Name	Dim.	Form.	Cont.	Description
	LPDD2	2	H		Length of Personalisation Device Data - Part 2
	LIDOWNER	1	H	"05"	Length of IDOWNER field
	IDOWNER	5	H	"A000000003" - VISA "A000000004" - MasterCard "A000000025" - AMEX	Identifier of the Owner of the Specifications for ICC Application #1
	LPS	2	H	"0004"	Length of Processing Steps
	PS	4	H	"030F01EF"	Processing Steps for ICC Application #1

data for chip card appl #2					
data for perso device					
	LPDI	2	H	"0003"	Length for Processing Device Instructions
	PDI	3	H	"EF0000"	Processing Device Instructions

Notas:

- Os campos IDTK identificam as KS (Chaves de Sessão) utilizadas sobre as DGI;
- Estes identificadores das KS estão contidos também no Módulo CHV (CHAVES DE CIFRA DO FICHEIRO);
- A estrutura dos IDTK das KS está descrita antes, junto ao Módulo CHV;
- *Data To Be Logged* (Para cada Aplicação *chip*);

Contém dados a retornar da personalização para esta aplicação. Nesta versão da especificação não se prevê utilizar esta estrutura.

3.2.5.3 Data to be logged

Tabela 20 - Ficheiro PERS - Data to be logged

	data to be Logged					
	Section (2+n)b	Name	Dim.	Form.	Cont.	Description
		LLOGDATA	2	H	"0000"	
		LOGDATA	0	H		No LOG DATA

3.2.5.4 Data To Be Sent To The Chip Card

Nesta secção do Ficheiro de Personalização são colocados, para cada aplicação:

- Dados para o *Processing Step* Personalização, ou seja, os Elementos de Dados a gravar efetivamente no *Chip* para essa Aplicação.
- Nesta especificação é apenas considerado o *Processing Step* Personalização.

Todos os Elementos de Dados a gravar no *chip* estão agrupados em estruturas designadas por **DGI (Data Group Identifier)**. Cada DGI é composto por:

- DGI *Identifier*.
- DGI *Length*.
- DGI *Data*.

Tabela 21 - Ficheiro PERS - Data To Be Sent To The Chip Card

data to be sent to chip card					
Section (2+n)c	Name	Dim.	Form.	Cont.	Description
	LICCDATA	2	H		Length of ICC Application #1 Data
	ICCDATA				ICC Application #1 Data
	Tag step #1 Data	1	H	"EF"	PERSONALISATION step
	Len step #1 Data	2	H		
DGIs					
	DGI Data Group #1				
	Len Data Group #1				
	Val Data Group #1				
	DGI Data Group #2				
	Len Data Group #2				
	Val Data Group #2				
	...				
	DGI Data Group #n				
	Len Data Group #n				
	Val Data Group #n				
Section (2+n)d	Name	Dim.	Form.	Cont.	Description
	LMACDATA	1	H	"14" (20decimal)	Dimensão de MACkey + MAC
	MACkey	16	H		Chave com que o MAC foi calculado. IDTK4 da estrutura FORMATTK, que por sua vez corresponde à KSMAC existente no MIC CHV.
	MAC	4	H		1ºs 4 bytes do MAC

3.2.5.5 DGI

Nesta secção identificam-se as DGI que são necessárias para a personalização de cada uma das aplicações que o *chip* pode conter. É referida a combinação de DGI a considerar para cada aplicação no *chip*. São também descritas regras para construção das DGI.

Para os elementos contidos nas várias DGI deve ter-se em atenção:

- Na coluna “Conteúdo”, podem considerar-se os valores indicados para a *Tag* e o *Length* do Elemento. Para o preenchimento do *Value*, os valores são ilustrativos, podendo na prática os valores a enviar serem outros;
- A coluna “Dim” indica a dimensão em *bytes*;
- Regras para construção das DGIs.

Os Elementos de Dados EMV a escrever no Cartão-Chip para uma Aplicação EMV estão agrupados em DGI. A Construção dessas DGI deve obedecer a um conjunto de regras, recomendadas em (2).

Para além destas, foram definidas adicionalmente as seguintes regras para a construção das DGI, cobrindo os seguintes aspectos:

- Gamas definidas e reservadas para as DGI.
- Unicidade do PIN.
- Ordem das Aplicações EMV.

3.2.5.5.1 Gamas definidas e reservadas para as DGI

Foram atribuídas gamas para a Identificação das DGI, de acordo com as especificações internacionais (1), (4) e (12), e de acordo com o tipo de DGI.

Tabela 22 - Gamas definidas e reservadas para as DGI

DE	... A	SIGNIFICADO	ATRIBUIÇÃO por
00 00	00 61	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros de Records do cartão.	(1)
00 62		Reservado.	(1)
00 63	00 CE	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros de Records do cartão.	(1)
00 CF		Reservado.	(1)
00 D0	1F FF	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros de Records do cartão.	(1)
20 00	7F 00	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros internos do cartão.	SIBS FPS
7F 01		Reservado.	(1)
7F 02	7F EF	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros internos do cartão.	SIBS FPS
7F F0	7F FE	Reservado.	(1)
7F FF	8F 00	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros internos do cartão.	SIBS FPS
8F 01		Reservado.	(1)
8F 02	9F 5F	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros internos do cartão.	SIBS FPS
9F 60	9F 6F	Reservado.	(1)
9F 70	EF FF	Identificação de DGI contendo elementos de Dados a escrever em Ficheiros internos do cartão.	SIBS FPS
F0 00	F0 FF	Identificação de DGI especiais. Contém TKs.	SIBS FPS
F1 00	FE FF	Reservado para uso Futuro.	SIBS FPS
FF 00	FF FF	Reservado para uso exclusivo das aplicações de Personalização.	SIBS FPS

3.2.5.5.2 Unicidade do PIN

Do lado das aplicações de Emissão no host da SIBS FPS:

- Assume-se que o PIN Offline é comum a todas as Aplicações EMV.
- Cada Aplicação EMV traz sempre as DGI relativas ao PIN Offline ("8010" e "9010"), que vêm replicadas (com o mesmo PIN) para cada uma das Aplicações EMV.

Do lado das aplicações no Personalizador:

- Assume-se que as DGI do PIN Offline estão sempre presentes para cada uma das Aplicações EMV.
- É através das CVM Lists que se determina se o PIN Offline é ou não escrito no chip. Não é escrito se nenhuma das CVM Lists relativas às aplicações EMV contiver o PIN Offline como método de CVM.
- Sendo o PIN Offline comum às várias Aplicações, ele só é escrito uma única vez, na raiz do chip. O valor do PIN a gravar pode ser obtido a partir da informação que vier para qualquer das Aplicações EMV (embora normalmente se utilize o PIN da primeira).

3.2.5.5.3 Ordem das Aplicações EMV

A aplicação MULTIBANCO dever ser sempre colocada após as aplicações dos sistemas de pagamento internacionais, caso estas existam, não podendo ser a única.

A aplicação CAP/DPA, caso exista, deve ser sempre a última da sequência, não podendo ser a única. Ver - Tabela de Combinação de DGI - PERS v1.

3.2.5.5.4 Fatores que condicionam a existência das DGI

A combinação de DGI a utilizar para cada cartão depende de vários fatores, traduzidos nas colunas da Tabela de Combinação de DGI.

1. AID (Sistema de Pagamento e Aplicação dentro deste):
 - a. Sistema de Pagamento: VISA, MasterCard, AMEX, MB;
 - b. Aplicação:
 - i. Pagamento: VISA, Electron, MasterCard, Maestro, AEIPS;
 - ii. Autenticação: CAP, DPA;
2. Tecnologia do Cartão:
 - i. SDA: Autenticação estática dos dados do cartão;
 - ii. DDA: Autenticação dinâmica dos dados do cartão;
 1. Designa-se por fDDA no PayWave e CDA no PayPass.
 - iii. CDA: Combined Data Authentication.
3. Modo (interface entre o cartão e o terminal):
 - i. Contact-Only (cartões contacto convencionais);
 - ii. Contact-Mode (modo contacto de um cartão PayPass/PayWave);
 - iii. Contactless-Mode (modo sem contacto de um cartão PayPass/PayWave);

4. Outros fatores:

- i. Versão da Aplicação, dentro do Sistema de Pagamento. VIS 1.4.0, VIS 1.5.4, VCPS 2.0.2, VCPS 2.1.2, M/Chip 4, M/Chip Advance, etc.
- ii. Existência ou não de *Offline PIN* no *chip* (contacto).
- iii. Caso exista, o *Offline PIN* ser ou não Cifrado.
- iv. No caso de existir *Offline PIN* Cifrado & DDA, utilização ou não de Chaves RSA dedicadas ao *Offline PIN*.

Outras Considerações

- As DGI relativas a ICC PIN *Encipherement* são utilizadas apenas se existir *Offline Enciphered PIN* no *chip*, e se este não partilhar a segurança com o DDA. Nesta versão da especificação não se usam estas DGI.
- Algumas DGI contêm Elementos de Dados Opcionais, que podem (mediante determinadas condições) não estar presentes nessa DGI.
- De acordo com (1), todas as DGI começadas com “8” são cifradas.
- No caso dos cartões para o Sistema de Autenticação Forte sem funcionalidades de pagamento, a aplicação MULTIBANCO é suportada na combinação de DGI relativa ao sistema de pagamento VISA e a aplicação de autenticação na combinação de DGI da aplicação DPA.

3.2.5.5.5 Determinar DGI a Utilizar

Para além de dependerem do SPI, do tipo de tecnologia do chip, das funcionalidades do cartão, as DGI a utilizar no envio do ficheiro PERS dependem também da versão do ficheiro PERS que está a ser enviada.

A coexistência de várias versões do ficheiro PERS decorre da necessidade de adaptação da disposição da informação contida no *chip* a diversas funcionalidades e serviços.

Os Personalizadores recebem a versão 2 do ficheiro PERS caso os cartões sejam:

- *Contactless* não personalizados ou *instant issuing*, das marcas VISA/VISA Electron DDA não VCPS 2.1.2 e MasterCard/Maestro DDA;
- EMV (*contact only*) *instant issuing*, das marcas MasterCard/Maestro DDA/CDA.
- AMEX EMV com DDA na componente contacto.

Os Personalizadores recebem a versão 3 do ficheiro PERS caso os cartões sejam:

- *Contactless* personalizados ou não personalizados das marcas VISA/VISA Electron DDA, emitidos de acordo com a VCPS 2.1.2;
- Com contacto personalizados ou não personalizados das marcas VISA/VISA Electron com *chip* DDA, de acordo com a versão de especificação VIS 1.5.4;
- *Contact-only* ou *contactless*, personalizados ou não personalizados, das marcas MasterCard/Maestro de acordo com especificações M/Chip Advance 1.2.

Os cartões *contactless* VCPS 2.1.2 são personalizados com CVN17 na vertente *contactless* e CVN18 na vertente contacto.

Os cartões contacto VIS 1.5.4 são personalizados com CVN18.

Em todos os outros casos, os Personalizadores recebem a versão 1 do ficheiro PERS.

As DGI utilizadas em cada uma das versões estão especificadas a partir da secção seguinte.

Para determinar quais as DGI a utilizar:

1. Identificar as aplicações a gravar no *chip*. Para este efeito, a componente *Contactless* é considerada independente da componente *Contact*.
2. Selecionar na Tabela de Combinação de DGI as colunas correspondentes a essas aplicações *chip*.
3. São consideradas as DGI das linhas que estiverem assinalada com , em pelo menos uma dessas colunas. Se na mesma linha a DGI estiver assinalada em mais do que uma das colunas, é considerada apenas uma vez.

Ver exemplos das diferentes combinações possíveis no Anexo A.

3.2.5.5.5.1 DGI a utilizar para a versão 1 do ficheiro PERS

Tabela 23 - Tabela de Combinação de DGI - PERS v1

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (tDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass Master Card/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-0101	Track Data VISA	KS CIF	✓	✓			✓	✓										
DGI-0101	Track Data MasterCard [SDA]	KS CIF								✓				✓				
DGI-0101	Track Data and Cardholdername MasterCard	KS CIF									✓				✓			
DGI-0101	Track Data VISA PayWave MSD	KS CIF			✓													
DGI-0101	Track Data MasterCard PayPass MagStripe	KS CIF											✓					
DGI-0101	Track Data and Authentication Data AMEX	KS CIF														✓	✓	
DGI-0102	Track Data and Cardholdername VISA	KS CIF			✓													
DGI-0102	Track Data and Cardholdername MasterCard	KS CIF		✓	✓			✓	✓				✓					
DGI-0102	Cardholdername																	

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-0102	Unsigned Card Data AMEX																✓	✓
DGI-0103	Signed Card Data AMEX																✓	✓
DGI-0201	Dynamic Authentication Data			✓	✓			✓										
DGI-0201	Signed Card Data VISA [SDA]	KS CIF	✓				✓											
DGI-0201	Signed Card Data MasterCard	KS CIF								✓	✓			✓	✓			
DGI-0201	Signed Card Data MasterCard PayPass	KS CIF												✓				
DGI-0202	Static Authentication Data			✓	✓	✓		✓										
DGI-0202	Unsigned Card Data VISA [SDA]			✓			✓											
DGI-0202	Signed Card Data MasterCard	KS CIF												✓				
DGI-0202	Unsigned Card Data MasterCard												✓			✓		
DGI-0202	Unsigned Card Data MasterCard [SDA]										✓				✓			
DGI-0203	Static Authentication Data - 1 [SDA]			✓			✓							✓				✓
DGI-0203	Static Authentication Data - 2 [SDA]													✓				

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-0203	Unsigned Card Data MasterCard																	
DGI-0203	Dynamic Authentication Data VISA PayWave	KS CIF			✓							✓						
DGI-0204	Signed Static Application Data [SDA]		✓			✓			✓		✓			✓				
DGI-0301	Static Authentication Data										✓		✓		✓			
DGI-0301	Signed Card Data VISA	KS CIF		✓	✓			✓										
DGI-0302	Dynamic Authentication Data										✓				✓			
DGI-0302	Signed Static Application Data												✓					
DGI-0302	Unsigned Card Data VISA				✓	✓		✓										
DGI-0303	Static Authentication Data											✓						
DGI-0304	Dynamic Authentication Data											✓						
DGI-0401	Dynamic Authentication Data MasterCard PayPass												✓					
DGI-0402	Dynamic Authentication Certificate MasterCard PayPass												✓					
DGI-0A01	Proprietary Tag Usage – GERAL			✓	✓	✓		✓	✓					✓	✓		✓	

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-0A02	Proprietary Tag Usage – Linha de Crédito		✓	✓	✓		✓	✓							✓	✓		
DGI-0A03	Proprietary Tag Usage – Fidelização		✓	✓	✓		✓	✓							✓	✓		
DGI-0A04	Proprietary Tag Usage – Programa de Emissor		✓	✓	✓		✓	✓							✓	✓		
DGI-0D01	(Internal) Card Risk Management Data VSDC			✓				✓										
DGI-0D01	(Internal) Card Risk Management Data VSDC [SDA]		✓				✓											
DGI-0D01	(Internal) Card Risk Management Data AMEX																✓	✓
DGI-0D01	(Internal) Card Risk Management Data M/Chip [SDA]									✓					✓			
DGI-0E01	(Private) Card Risk Management Data VSDC		✓	✓			✓	✓										
DGI-0E01	(Private) Card Risk Management Data AMEX															✓	✓	
DGI-0E01	(Private) Card Risk Management Data M/Chip [SDA]									✓					✓			
DGI-0E01	Card Private Data VISA PayWave – Part 1	KS CIF		✓	✓													
DGI-0E01	Card Private Data VISA PayWave – Part 2	KS CIF		✓	✓										✓	✓		
DGI-1501	Proprietary Tag Usage – GERAL									✓	✓	✓						

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-1502	Proprietary Tag Usage – Linha de Crédito									✓	✓	✓						
DGI-1503	Proprietary Tag Usage – Fidelização									✓	✓	✓						
DGI-1504	Proprietary Tag Usage – Programa de Emissor									✓	✓	✓						
DGI-2000	ICC PUBLIC KEY			✓	✓	✓		✓			✓	✓	✓	✓	✓	✓		
DGI-300C	(Internal) Card Risk Management Data DPA								✓									
DGI-300D	(Internal) Card Risk Management Data CAP														✓			
DGI-300E	(Private) Card Risk Management Data DPA									✓								
DGI-300F	(Private) Card Risk Management Data CAP														✓			
DGI-3212	Card Data CAP/DPA	KS CIF							✓							✓		
DGI-8000	DES UDK Keys	KS KEY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DGI-8001	Alternate DES UDK Key for MSD	KS KEY				✓												
DGI-8010	Offline PIN	KS PIN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DGI-8101	ICC Private Key (DDA / ICC PIN Encipherment) Exponent	KS KEY		✓	✓	✓			✓		✓	✓	✓	✓	✓			

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-8102	ICC Private Key (ICC PIN Encipherment) Exponent	KS KEY																
DGI-8103	ICC Private Key (DDA / ICC PIN Encipherment) Modulus	KS KEY		✓	✓	✓		✓			✓	✓	✓		✓			
DGI-8104	ICC Private Key (ICC PIN Encipherment) Modulus	KS KEY																
DGI-8201	ICC Private Key CRT Constant $q^{-1} \text{ mod } p$	KS KEY		✓	✓	✓		✓			✓	✓	✓		✓			
DGI-8202	ICC Private Key CRT Constant d mod (q-1)	KS KEY		✓	✓	✓		✓			✓	✓	✓		✓			
DGI-8203	ICC Private Key CRT Constant d mod (p-1)	KS KEY		✓	✓	✓		✓			✓	✓	✓		✓			
DGI-8204	ICC Private Key CRT Constant prime factor q	KS KEY		✓	✓	✓		✓			✓	✓	✓		✓			
DGI-8205	ICC Private Key CRT Constant prime factor p	KS KEY		✓	✓	✓		✓			✓	✓	✓		✓			
DGI-8301	ICC PIN Encipherment Private Key CRT Constant $q^{-1} \text{ mod } p$	KS KEY																
DGI-8302	ICC PIN Encipherment Private Key CRT Constant d mod (q-1)	KS KEY																
DGI-8303	ICC PIN Encipherment Private Key CRT Constant d mod (p-1)	KS KEY																
DGI-8304	ICC PIN Encipherment Private Key CRT Constant prime factor q	KS KEY																
DGI-8305	ICC PIN Encipherment Private Key CRT Constant prime factor p	KS KEY																

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-8400	DES CVC3 Keys	KS KEY																
DGI-9000	DES Key Check Values		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DGI-9001	DES Key Check Values CVC3												✓					
DGI-9010	Offline PIN Data			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DGI-9102	SELECT Response Data VSDC				✓	✓		✓										
DGI-9102	SELECT Response Data VSDC [SDA]				✓			✓										
DGI-9102	SELECT Response Data M/Chip											✓	✓	✓		✓		
DGI-9102	SELECT Response Data M/Chip [SDA]									✓				✓				
DGI-9102	SELECT Response Data CAP/DPA									✓						✓		
DGI-9102	SELECT Response Data AMEX															✓	✓	
DGI-9103	SELECT Response Data VISA PAYWAVE						✓											
DGI-9104	GET PROCESSING OPTIONS Response Data			✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		
DGI-9104	GET PROCESSING OPTIONS Response Data CAP/DPA									✓						✓		

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-9104	GET PROCESSING OPTIONS Response Data AMEX															✓	✓	
DGI-9200	GENERATE AC Response Data VISA		✓	✓	✓		✓	✓								✓	✓	
DGI-9200	GENERATE AC Response Data MASTERCARD									✓				✓				
DGI-9206	GET PROCESSING OPTIONS VISA PayWave MSD					✓												
DGI-9207	GET PROCESSING OPTIONS VISA PayWave qVSDC					✓												
DGI-A001	Alternate Select Response Mchip										✓	✓				✓		
DGI-A002	Persistent Data Elements M/Chip										✓	✓				✓		
DGI-A003	CFDC Key Limits M/Chip										✓	✓				✓		
DGI-A005	Alternate Get Procession Options Mchip										✓	✓				✓		
DGI-A006	ICC Dynamic Number Master KEY M/Chip	KS KEY									✓	✓	✓			✓		
DGI-A007	Persistent Data Elements M/Chip - 1										✓	✓	✓			✓		
DGI-A007	Persistent Data Elements M/Chip - 2										✓	✓	✓			✓		
DGI-A008	Bad Cryptogram Counter Limit M/Chip										✓	✓	✓			✓		

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MUL TIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MUL TIBANCO-MASTERCARD (SDA)	MUL TIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)
DGI-B002	(Private) Card Risk Management Data MASTERCARD PayPass													✓				
DGI-B005	GET PROCESSING OPTIONS MASTERCARD PayPass													✓				

3.2.5.5.2 Layout das DGI - PERS v1

Na tabela seguinte é detalhada a composição de cada uma das possíveis DGI.

Os elementos de dados que formam as DGI podem decompor-se em:

- **TLV:** Tag, Length e Value do Elemento. Caso dos elementos de dados simples.
- **TL:** Só Tag e Length. Caso dos elementos de dados compostos por outros Elementos.
- **V:** Só Value. Caso dos elementos de dados que não têm Tag atribuída em (1), (7), (10) e (19).

Em qualquer dos casos, cada componente (T, L ou V) ocupa uma linha na tabela.

Para cada componente do Elemento de Dados, é indicado:

- **Nome.** De acordo com (1), (4) e (12).
- **Dim (Dimensão).** Dimensão efetiva (em caracteres) com que o Elemento vem no Ficheiro de Personalização. n1-n2 representa um intervalo. n3 n4 representam 2 valores possíveis.
- **Form (Formato). Formato dos dados no Ficheiro PERS:**
 - **ASCII:** representação ASCII do texto.
 - **Binary:** Varia entre "0" e "9", "A" e "F".
 - **H - Hexadecimal:** Varia entre '0' e '9', 'A' e 'F'.
- **Req (Requisito). Presença do elemento na DGI:**
 - **M: Mandatório.** Elemento sempre presente na DGI (quando esta exista).
 - **O: Opcional.** O elemento pode não estar presente na DGI.

Conteúdo. Os valores apresentados nesta coluna devem ser considerados como informativos.

Tabela 24 - DGI-0101 *Track Data VISA*; DGI-0203 *Track Data VISA*

DGI-0101 Track Data VISA DGI-0203 Track Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0101" "0203"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	"57"
Len	Len Track 2 Equivalent Data	1	H	M	"13"
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Track 1 Discretionary Data	2	H	O	"9F1F"
Len	Len Track 1 Discretionary Data	1	H	O	"17" "18" "1A"

DGI-0101 Track Data VISA
DGI-0203 Track Data VISA

	Nome	Dim	Form	Req	Conteúdo
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 25 - DGI-0101 *Track Data MasterCard [SDA]*

DGI-0101 Track Data MasterCard [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 26 - DGI-0101 *Track Data and Cardholdername MasterCard*; DGI-0102 *Track Data and Cardholdername MasterCard*

DGI-0101 Track Data and Cardholdername MasterCard					
DGI-0102 Track Data and Cardholdername MasterCard					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0101” “0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Cardholdername	2	H	M	“5F20”
Len	Len Cardholdername	1	H	M	“1A”
Val	Cardholdername	26	H	M	

Tabela 27 - DGI-0101 Track Data VISA Paywave MSD

DGI-0101 Track Data VISA PAYWAVE MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Cardholdername	2	H	O	“5F20”
Len	Len Cardholdername	1	H	O	“1A”
Val	Cardholdername	26	H	O	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 28 - DGI-0101 Track Data MasterCard PayPass MagStripe

DGI-0101 Track Data MASTERCARD PayPass MagStripe					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag MagStripe AVN	2	H	M	“9F6C”
Len	Len MagStripe AVN	1	H	M	“02”
Val	MagStripe AVN	2	H	M	MasterCard: “0001” Maestro: “FFFF”
Tag	Tag Track 1 Bit Map for CVC3 (*)	2	H	M	“9F62”
Len	Len Track 1 Bit Map for CVC3 (*)	1	H	M	“06”
Val	Track 1 Bit Map for CVC3 (*)	6	H	M	
Tag	Tag Track 1 Bit Map for UN and ATC (*)	2	H	M	“9F63”
Len	Len Track 1 Bit Map for UN and ATC (*)	1	H	M	“06”
Val	Track 1 Bit Map for UN and ATC (*)	6	H	M	

DGI-0101 Track Data MASTERCARD PayPass MagStripe

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Track 1 Data (*)	1	H	M	“56”
Len	Len Track 1 Data (*)	1	H	M	Até “4C”
Val	Track 1 Data (*)	Até 76	ASCII	M	
Tag	Tag Track 1 Number for ATC Digits (*)	2	H	M	“9F64”
Len	Len Track 1 Number for ATC Digits (*)	1	H	M	“01”
Val	Track 1 Number for ATC Digits (*)	1	H	M	
Tag	Tag Track 2 Bit Map for CVC3 (*)	2	H	M	“9F65”
Len	Len Track 2 Bit Map for CVC3 (*)	1	H	M	“02”
Val	Track 2 Bit Map for CVC3 (*)	2	H	M	
Tag	Tag Track 2 Bit Map for UN and ATC (*)	2	H	M	“9F66”
Len	Len Track 2 Bit Map for UN and ATC (*)	1	H	M	“02”
Val	Track 2 Bit Map for UN and ATC (*)	2	H	M	
Tag	Tag Track 2 Data (*)	2	H	M	“9F6B”
Len	Len Track 2 Data (*)	1	H	M	Até “13”
Val	Track 2 Data (*)	Até 19	H	M	
Tag	Tag Track 2 Number for ATC Digits (*)	2	H	M	“9F67”
Len	Len Track 2 Number for ATC Digits (*)	1	H	M	“01”
Val	Track 2 Number for ATC Digits (*)	1	H	M	

(*) Estes elementos não vêm para PayPass Maestro.

Tabela 29 - DGI-0101 Track Data and Authentication Data AMEX

DGI-0101 Track Data and Authentication Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	

DGI-0101 Track Data and Authentication Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder		H	O	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	“82”

Tabela 30 - DGI-0102 Track Data and Cardholdername VISA
DGI-0102 Track Data and Cardholdername VISA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 31 - DGI-0102 Cardholder Name

DGI-0102 Cardholder Name					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	

Tabela 32 - DGI-0102 Unsigned Card Data AMEX

DGI-0102 Unsigned Card Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	“15”
Val	CDOL1	21	H	M	“9F02069F03069F1A0295055F2A029A039C019F3704”
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	
Tag	Tag Signed Static Application Data	1	H	M	“93”
Len	Len Signed Static Application Data	1	H	M	“70”
		2			“8190”
Val	Signed Static Application Data (SSAD)	144	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	1	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H		“8E”

DGI-0102 Unsigned Card Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Len	Len Cardholder Verification Method List	1	H		A)
Val	Cardholder Verification Method List (CVM List)	var	H		

- A) Tamanho variável entre “0” e “60”.
 B) Tamanho variável, com um máximo “17”.

Tabela 33 - DGI-0103 Signed Card Data AMEX
DGI-0103 Signed Card Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0103”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes – Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes – Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes – Online	1	H	M	“05”

DGI-0103 Signed Card Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	"5F28"
Len	Len Issuer Country Code	1	H	M	"02"
Val	Issuer Country Code	2	H	M	
Tag	Tag Application Usage Control	2	H	M	"9F07"
Len	Len Application Usage Control	1	H	M	"02"
Val	Application Usage Control (AUC)	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

Tabela 34 - DGI-0201 Dynamic Authentication Data; DGI-0302 Dynamic Authentication Data; DGI-0304 Dynamic Authentication Data

DGI-0201 Dynamic Authentication Data					
DGI-0302 Dynamic Authentication Data					
DGI-0304 Dynamic Authentication Data					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		"0201" "0302" "0304"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	2	H	M	
Tag	Tag ICC PK Certificate	2	H	M	"9F46"
Len	Len ICC PK Certificate	1	H	M	"70"
		2	H	M	"8180"
		2	H	M	"8190"
Val	ICC PK Certificate		H	M	
Tag	Tag ICC PK Exponent	2	H	M	"9F47"
Len	Len ICC PK Exponent	1	H	M	"01"
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	"9F48"
Len	Len ICC PK Remainder	1	H	O	"14"
Val	ICC PK Remainder		H	O	
Tag	Tag DDOL	2	H	M	"9F49"
Len	Len DDOL	1	H	M	"03" "10"
Val	DDOL	3	H	M	"9F3704" "9F1A029F1C085F2A029A039C019F3704"

Tabela 35 - DGI-0201 Signed Card Data VISA [SDA]

DGI-0201 Signed Card Data VISA [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0201”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Application PAN Seq Nbr	1	H	M	“5A”
Len	Len Application PAN Seq Nbr	1	H	M	“07” “08”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	7 8	H	M	
Tag	Tag Application Usage Control	2	H	M	“5F34”
Len	Len Application Usage Control	1	H	M	“01”
Val	Application Usage Control (AUC)	1	H	M	“00”
Tag	Tag Personal Account Number	2	H	M	“9F07”
Len	Len Personal Account Number	1	H	M	“02”
Val	Personal Account Number (PAN)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes - Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes - Default	1	H	M	“05”
Val	Issuer Action Codes - Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes - Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial	1	H	M	“05”
Val	Issuer Action Codes - Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes - Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online	1	H	M	“05”

DGI-0201 Signed Card Data VISA [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Action Codes - Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	1	H	M	“82”

NOTA: Para o cálculo do SSAD entram os dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.

Tabela 36 - DGI-0201 Signed Card Data MasterCard; DGI-0202 Signed Card Data MasterCard

	Nome	Dim	Form	Req	Conteúdo
	DGI-0201 Signed Card Data MASTERCARD				
	DGI-0202 Signed Card Data MASTERCARD				
Tag DGI		2	H		“0201” “0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	B)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	C)

DGI-0201 Signed Card Data MASTERCARD					
DGI-0202 Signed Card Data MASTERCARD					
	Nome	Dim	Form	Req	Conteúdo
Val	CDOL2	var	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes - Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes - Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes - Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List	1	H	M	“82”
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.
- B) Tamanho variável, com um máximo “15”.
- C) Tamanho variável, com um máximo de “17”.

Tabela 37 - DGI-0201 Signed Card Data MasterCard PayPass

DGI-0201 SIGNED Card Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0201”

DGI-0201 SIGNED Card Data MasterCard PayPass

	Nome	Dim	Form	Req	Conteúdo
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data (PayPass)	1	H	M	“57”
Len	Len Track 2 Equivalent Data (PayPass)	1	H	M	“13”
Val	Track 2 Equivalent Data (PayPass)	19	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	B)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	C)
Val	CDOL2	var	H	M	
Tag	Tag Static Data Authentication Tag List (PayPass)	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List (PayPass)	1	H	M	“01”
Val	Static Data Authentication Tag List (SDA Tag List) (PayPass)	1	H	M	“82”
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Paypass Personal Account Number (PPAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Paypass Application PAN Seq Nbr (PPAN Seq Nbr)	1	H	M	“00”
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”

DGI-0201 SIGNED Card Data MasterCard PayPass

	Nome	Dim	Form	Req	Conteúdo
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List (PayPass)	1	H	M	"8E"
Len	Len Cardholder Verification Method List (PayPass)	1	H	M	A)
Val	Cardholder Verification Method List (CVM List) (PayPass)	var	H	M	
Tag	Tag Issuer Action Codes – Default (PayPass)	2	H	M	"9F0D"
Len	Len Issuer Action Codes - Default (PayPass)	1	H	M	"05"
Val	Issuer Action Codes – Default (IAC-Default) (PayPass)	5	H	M	
Tag	Tag Issuer Action Codes - Denial (PayPass)	2	H	M	"9F0E"
Len	Len Issuer Action Codes - Denial (PayPass)	1	H	M	"05"
Val	Issuer Action Codes – Denial (IAC-Denial) (PayPass)	5	H	M	
Tag	Tag Issuer Action Codes - Online (PayPass)	2	H	M	"9F0F"
Len	Len Issuer Action Codes - Online (PayPass)	1	H	M	"05"
Val	Issuer Action Codes – Online (IAC-Online) (PayPass)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	"5F28"
Len	Len Issuer Country Code	1	H	M	"02"
Val	Issuer Country Code	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre "0" e "60";
- B) Tamanho variável, com um máximo de "15".
- C) Tamanho variável, com um máximo de "17".

Tabela 38 - DGI-0202 Static Authentication Data; DGI-0203 Static Data Authentication Data - 2 [SDA]; DGI-0301 Static Authentication Data; DGI-0303 Static Authentication Data

DGI-0202 Static Authentication Data					
DGI-0203 Static Data Authentication Data - 2 [SDA]					
DGI-0301 Static Authentication Data					
DGI-0303 Static Authentication Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0202" "0203" "0301" "0303"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"

DGI-0202 Static Authentication Data
DGI-0203 Static Data Authentication Data - 2 [SDA]
DGI-0301 Static Authentication Data
DGI-0303 Static Authentication Data

	Nome	Dim	Form	Req	Conteúdo
Len	Len AEF Data Template	2	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder		H	O	

Tabela 39 - DGI-0202 *Unsigned Card Data MasterCard*; DGI-0203 *Unsigned Card Data MasterCard*

DGI-0202 UNSIGNED Card Data MasterCard DGI-0203 UNSIGNED Card Data MasterCard					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0202” “0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	

Tabela 40 - DGI-0202 Unsigned Card Data MasterCard [SDA]

DGI-0202 Unsigned Card Data MasterCard [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	A)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	

- A) Tamanho variável, com um máximo “15”.
- B) Tamanho variável, com um máximo “17”.

Tabela 41 - DGI-0203 Static Authentication Data - 1 [SDA]

DGI-0203 Static Data Authentication Data - 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	“82”

DGI-0203 Static Data Authentication Data - 1

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder		H	O	

Tabela 42 - DGI-0203 Dynamic Authentication Data VISA Paywave
DGI-0203 Dynamic Authentication Data VISA Paywave

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Val	ICC PK Certificate		H	M	
	Tag ICC PK Certificate	2	H	M	“9F46”
	Len ICC PK Certificate	1	H	M	“70”
		2			“81XX”
		2			“81XX”
	ICC PK Certificate	var	H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	1	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder		H	O	
Tag	Tag Personal Account Number (PAN)	1	H	M	“5A”
Len	Len Personal Account Number (PAN)	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	

DGI-0203 Dynamic Authentication Data VISA Paywave

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application Expiration Date	1	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Application PAN Seq Nbr	1	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr	1	H	M	
Tag	Tag Card Authentication Related Data	1	H	M	“9F69”
Len	Len Card Authentication Related Data	1	H	M	A)
Val	Card Authentication Related Data	var	H	M	

- A) Tem tamanho variável, com um máximo “05”.

Tabela 43 - DGI-0204 Signed Static Application Data [SDA]; DGI-0302 Signed Static Application Data

DGI-0204 Signed Static Application Data [SDA] DGI-0302 Signed Static Application Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0204” “0302”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1 2	H	M	
Tag	Tag Signed Static Application Data	1	H	M	“93”
Len	Len Signed Static Application Data	1 2	H	M	“70” “81XX”
Val	Signed Static Application Data (SSAD)	var	H	M	

Tabela 44 - DGI-0301 Signed Card Data VISA

DGI-0301 Signed Card Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0301”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”

DGI-0301 Signed Card Data VISA

	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes – Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes – Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes – Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List	1	H	M	“82”

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo amarelo, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.

Tabela 45 - DGI-0302 Unsigned Card Data VISA; DGI-0202 Unsigned Card Data VISA [SDA]

DGI-0302 Unsigned Card Data VISA DGI-0202 Unsigned Card Data VISA [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0302” “0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	1	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	A)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	

- A) Tamanho variável, com um máximo “15”.
 B) Tamanho variável, com um máximo “17”.

Tabela 46 - DGI-0401 Dynamic Authentication Data MasterCard Paypass

DGI-0401 Dynamic Authentication Data MasterCard Paypass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0401”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	

DGI-0401 Dynamic Authentication Data MasterCard Paypass

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder	20	H	O	
Tag	Tag Third Party Data (Device Type)	2	H	M	“9F6E”
Len	Len Third Party Data (Device Type)	1	H	M	“07”
Val	Third Party Data (Device Type)	7	H	M	

Tabela 47 - DGI-0402 Dynamic Authentication Certificate MasterCard Paypass
DGI-0402 Dynamic Authentication Data MasterCard Paypass

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0402”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
		2			
Tag	Tag ICC PK Certificate	2	H	M	“9F46”
Len	Len ICC PK Certificate	1	H	M	“70”
		2			“8180”
		2			“8190”
Val	ICC PK Certificate	var	H	M	

Tabela 48 - DGI-0A01 Proprietary Tag Usage - GERAL; DGI-1501 Proprietary Tag Usage - GERAL
DGI-0A01 Proprietary Tag Usage - GERAL
DGI-1501 Proprietary Tag Usage - GERAL

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A01” “1501”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Contas Associadas	2	H	M	“DF27”
Len	Len Contas Associadas	1	H	M	“08”
Val	Contas Associadas	8	H	M	
Tag	Tag Restrição Operações Cartão	2	H	M	“DF28”
Len	Len Restrição Operações Cartão	1	H	M	“10”
Val	Restrição Operações Cartão	16	H	M	
Tag	Tag Suporte Funcionalidades SEQPAN	2	H	M	“DF47”
Len	Len Suporte Funcionalidades SEQPAN	1	H	M	“01”

DGI-0A01 Proprietary Tag Usage - GERAL					
DGI-1501 Proprietary Tag Usage - GERAL					
	Nome	Dim	Form	Req	Conteúdo
Val	Suporte Funcionalidades SEQPAN	1	H	M	
Tag	Tag Identificação Cliente	2	H	M	“DF49”
Len	Len Identificação Cliente	1	H	M	“0D”
Val	Sexo	1	H	M	
	Data de Nascimento	4	H	M	
	Código de Atividade	4	H	M	
	RFU	4	H	M	“00000000”

Tabela 49 - DGI-0A02 Proprietary Tag Usage - Linha de Crédito; DGI-1502 Proprietary Tag Usage - Linha de Crédito

DGI-0A02 Proprietary Tag Usage - Linha de Crédito					
DGI-1502 Proprietary Tag Usage - Linha de Crédito					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A02” “1502”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Linha de Crédito	2	H	M	“DF44”
Len	Len Funcionalidade Linha de Crédito	1	H	M	“28”
Val	Indicador de Funcionalidade Linha de Crédito	1	H	M	“00” “01”
	Montante Mínimo Aplicável	4	H	M	
	Nº Máximo de Prestações	1	H	M	
	Valor Mínimo para a Prestação	4	H	M	
	Texto a apresentar no Pinpad	30	H	M	

Tabela 50 - DGI-0A03 Proprietary Tag Usage - Fidelização; DGI-1503 Proprietary Tag Usage - Fidelização

DGI-0A03 Proprietary Tag Usage - Fidelização					
DGI-1503 Proprietary Tag Usage - Fidelização					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A03” “1503”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Fidelização	2	H	M	“DF45”

DGI-0A03 Proprietary Tag Usage - Fidelização DGI-1503 Proprietary Tag Usage - Fidelização					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Funcionalidade Fidelização	1	H	M	“22”
Val	Indicador de Funcionalidade Fidelização	1	H	M	“00” “01”
	Identificador do Programa de Fidelização	2	H	M	
	Indicador de Rebate de Pontos	1	H	M	“00” “01”
	Texto a apresentar no Pinpad	30	H	M	

Tabela 51 - DGI-0A04 Proprietary Tag Usage - Programa de Emissor; DGI-1504 Proprietary Tag Usage - Programa de Emissor

DGI-0A04 Proprietary Tag Usage - Programa de Emissor DGI-1504 Proprietary Tag Usage - Programa de Emissor					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A04” “1504”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Programa de Emissor	2	H	M	“DF46”
Len	Len Funcionalidade Programa de Emissor	1	H	M	“03”
Val	Indicador de Funcionalidade Programa de Emissor	1	H	M	“00” “01”
	Identificador do Programa de Emissor	2	H	M	

Tabela 52 - DGI-0D01 (*Internal*) Card Risk Management Data VSDC

DGI-0D01 (Internal) Card Risk Management Data VSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”

DGI-0D01 (Internal) Card Risk Management Data VSDC

	Nome	Dim	Form	Req	Conteúdo
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit – Dual Currency	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit – Dual Currency	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit – Dual Currency	6	H	O	
Tag	Tag Currency Conversion Factor	2	H	O	“9F73”
Len	Len Currency Conversion Factor	1	H	O	“04”
Val	Currency Conversion Factor	4	H	O	
Tag	Tag Available Offline Spending Amount	2	H	M	“9F5D”
Len	Len Available Offline Spending Amount	1	H	M	“06”
Val	Available Offline Spending Amount	6	H	M	
Tag	Tag Consecutive Transaction Int Upper Limit	2	H	M	“9F5E”
Len	Len Consecutive Transaction Int Upper Limit	1	H	M	“01”
Val	Consecutive Transaction Int Upper Limit	1	H	M	
Tag	Tag Log Format	2	H	M	“9F4F”
Len	Len Log Format	1	H	M	“0E”
Val	Log Format	14	H	M	“9F27019F02065F2A029A03 9F3602”

Tabela 53 - DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]

DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”

DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]

	Nome	Dim	Form	Req	Conteúdo
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit – Dual Currency	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit – Dual Currency	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit – Dual Currency	6	H	O	
Tag	Tag Currency Conversion Factor	2	H	O	“9F73”
Len	Len Currency Conversion Factor	1	H	O	“04”
Val	Currency Conversion Factor	4	H	O	

Tabela 54 - DGI-0D01 (Internal) Card Risk Management Data AMEX

DGI-0D01 (Internal) Card Risk Management Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	

DGI-0D01 (Internal) Card Risk Management Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	

Tabela 55 - DGI-0D01 (Internal) Card Risk Management Data M/Chip [SDA]
DGI-0D01 (Internal) Card Risk Management Data M/Chip [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Currency Conversion Table	2	H	O	“D1”
Len	Len Currency Conversion Table	1	H	O	“05”
Val	Currency Conversion Table	5	H	O	

Tabela 56 - DGI-0E01 (Private) Card Risk Management Data VSDC

DGI-0E01 (Private) Card Risk Management Data VSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action (ADA)	4	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	
Tag	Tag Geographic Indicator	2	H	M	“9F55”
Len	Len Geographic Indicator	1	H	M	“01”
Val	Geographic Indicator	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Secondary Application Currency Code	2	H	O	“9F76”
Len	Len Secondary Application Currency Code	1	H	O	“02”
Val	Secondary Application Currency Code	2	H	O	
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

Tabela 57 - DGI-0E01 (Private) Card Risk Management Data AMEX

DGI-0E01 (Private) Card Risk Management Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“02”
Val	Application Default Action (ADA)	2	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”

DGI-0E01 (Private) Card Risk Management Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

Tabela 58 - DGI-0E01 (Private) Card Risk Management Data M/CHIP [SDA]

DGI-0E01 (Private) Card Risk Management Data M/CHIP [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”
Val	CRM Currency Code	2	H	M	
Tag	Tag Card Issuer Action Code – Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code – Decline	1	H	M	“03”
Val	Card Issuer Action Code – Decline	3	H	M	
Tag	Tag Card Issuer Action Code – Default	1	H	M	“C4”
Len	Len Card Issuer Action Code – Default	1	H	M	“03”
Val	Card Issuer Action Code – Default	3	H	M	
Tag	Tag Card Issuer Action Code – Online	1	H	M	“C5”
Len	Len Card Issuer Action Code – Online	1	H	M	“03”
Val	Card Issuer Action Code – Online	3	H	M	

Tabela 59 - DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Track2EquivalentData (PayWave)	1	H	M	“57”
Len	Len Track2EquivalentData (PayWave)	1	H	M	“13”
Val	Track2EquivalentData (PayWave)	19	H	M	
Tag	Tag Cardholder Name (PayWave)	2	H	M	“5F20”
Len	Len Cardholder Name (PayWave)	1	H	M	“1A”
Val	Cardholder Name (PayWave)	26	H	M	
Tag	Tag Application Pan Sequence Number (PayWave)	2	H	M	“5F34”

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1

	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Pan Sequence Number (PayWave)	1	H	M	“01”
Val	Application Pan Sequence Number (PayWave)	1	H	M	
Tag	Tag Track1DiscretionaryData (PayWave)	2	H	M	“9F1F”
Len	Len Track1DiscretionaryData (PayWave)	1	H	M	“17” “18” “1A”
Val	Track1DiscretionaryData (PayWave)	23 24 26	H	M	
Tag	Tag Transaction Log Format (PayWave)	2	H	M	“9F4F”
Len	Len Transaction Log Format (PayWave)	1	H	M	“0E”
Val	Transaction Log Format (PayWave)	14	H	M	“9F27019F02065F2A029A039F3602”
Tag	Tag Application Currency Code (PayWave)	2	H	M	“9F51”
Len	Len Application Currency Code (PayWave)	1	H	M	“02”
Val	Application Currency Code (PayWave)	2	H	M	
Tag	Tag Application Default Action (PayWave)	2	H	M	“9F52”
Len	Len Application Default Action (PayWave)	1	H	M	“04”
Val	Application Default Action (PayWave)	4	H	M	
Tag	Tag Consecutive Transaction Limit – International (CTLI) (PayWave)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit – International (CTLI) (PayWave)	1	H	M	“01”
Val	Consecutive Transaction Limit – International (CTLI) (PayWave)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	6	H	M	
Tag	Tag Geographic Indicator (PayWave)	2	H	M	“9F55”
Len	Len Geographic Indicator (PayWave)	1	H	M	“01”
Val	Geographic Indicator (PayWave)	1	H	M	
Tag	Tag Issuer Authentication Indicator (PayWave)	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator (PayWave)	1	H	M	“01”
Val	Issuer Authentication Indicator (PayWave)	1	H	M	
Tag	Tag Issuer Country Code (PayWave)	2	H	M	“9F57”
Len	Len Issuer Country Code (PayWave)	1	H	M	“02”
Val	Issuer Country Code (PayWave)	2	H	M	
Tag	Tag Lower Consecutive Offline Limit (PayWave)	2	H	M	“9F58”

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Lower Consecutive Offline Limit (PayWave)	1	H	M	“01”
Val	Lower Consecutive Offline Limit (PayWave)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit (PayWave)	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit (PayWave)	1	H	M	“01”
Val	Upper Consecutive Offline Limit (PayWave)	1	H	M	
Tag	Tag (PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	2	H	M	“9F5C”
Len	Len (PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	1	H	M	“06”
Val	(PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	6	H	M	
Tag	Tag Available Offline Spending Amount (AOSA) (PayWave)	2	H	O	“9F5D”
Len	Len Available Offline Spending Amount (AOSA) (PayWave)	1	H	O	“06”
Val	Available Offline Spending Amount (AOSA) (PayWave)	6	H	O	
Tag	Tag Consecutive Transaction International Upper Limit (PayWave)	2	H	M	“9F5E”
Len	Len Consecutive Transaction International Upper Limit (PayWave)	1	H	M	“01”
Val	Consecutive Transaction International Upper Limit (PayWave)	1	H	M	
Tag	Tag Offline Counter Initial Value (PayWave)	2	H	M	“9F63”
Len	Len Offline Counter Initial Value (PayWave)	1	H	M	A)
Val	Offline Counter Initial Value (PayWave)	var	H	M	
Tag	Tag MSD Offset (PayWave-qVSDC)	2	H	M	“9F67”
Len	Len MSD Offset (PayWave-qVSDC)	1	H	M	“01”
Val	MSD Offset (PayWave-qVSDC)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International Country) (PayWave)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International Country) (PayWave)	1	H	M	“01”
Val	Consecutive Transaction Limit (International Country) (PayWave)	1	H	M	
Tag	Tag Currency Conversion Factor (PayWave)	2	H	O	“9F73”
Len	Len Currency Conversion Factor (PayWave)	1	H	O	“04”
Val	Currency Conversion Factor (PayWave)	4	H	O	
Tag	Tag Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	6	H	O	

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Secondary Application Currency Code (PayWave)	2	H	O	“9F76”
Len	Len Secondary Application Currency Code (PayWave)	1	H	O	“02”
Val	Secondary Application Currency Code (PayWave)	2	H	O	

A) Tamanho variável, entre “0” e “01”.

Tabela 60 - DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 2

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Card Additional Processes (PayWave-qVSDC)	2	H	M	“9F68”
Len	Len Card Additional Processes (PayWave-qVSDC)	1	H	M	“04”
Val	Card Additional Processes (PayWave-qVSDC)	4	H	M	A)
Tag	Tag Card Transaction Qualifiers (PayWave-qVSDC)	2	H	M	“9F6C”
Len	Len Card Transaction Qualifiers (PayWave-qVSDC)	1	H	M	“02”
Val	Card Transaction Qualifiers (PayWave-qVSDC)	2	H	M	
Tag	Tag VLP Reset Threshold (PayWave-qVSDC)	2	H	M	“9F6D”
Len	Len VLP Reset Threshold (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Reset Threshold (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Funds Limit (PayWave-qVSDC)	2	H	M	“9F77”
Len	Len VLP Funds Limit (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Funds Limit (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Single Transaction Limit (PayWave-qVSDC)	2	H	M	“9F78”
Len	Len VLP Single Transaction Limit (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Single Transaction Limit (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Available Funds (PayWave-qVSDC)	2	H	M	“9F79”
Len	Len VLP Available Funds (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Available Funds (PayWave-qVSDC)	6	H	M	

A) Valores possíveis:

- ‘4E00C000’ - *Contactless* alto valor;
- ‘4E000000’ - *Contactless* baixo valor;

Tabela 61 - DGI-2000 ICC Public Key

DGI-2000 ICC Public Key					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“2000”
Len DGI		1	H		
Val	ICC Public Key Modulus		H	M	
Val	ICC Public Key Remainder		H	M	

Tabela 62 - DGI-300C (Internal) Card Risk Management Data DPA

DGI-300C (Internal) Card Risk Management Data DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300C”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	“FF”
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	“FF”
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	“FF”
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	“FF”
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	“999999999999”
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	“999999999999”

Tabela 63 - DGI-300D (*Internal*) Card Risk Management Data CAP

DGI-300D (<i>Internal</i>) Card Risk Management Data CAP					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300D”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	“FF”
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	“FF”
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	“999999999999”
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	“999999999999”
Tag	Tag Currency Conversion Table	2	H	O	“D1”
Len	Len Currency Conversion Table	1	H	O	“05”
Val	Currency Conversion Table	5	H	O	“99 99 00 00 00 99 99 00 00 00 99 99 00 00 00 99 99 00 00 00 99 99 00 00 00”

Tabela 64 - DGI-300E (*Private*) Card Risk Management Data DPA

DGI-300E (<i>Private</i>) Card Risk Management Data DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300E”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action (ADA)	4	H	M	“00000000”
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“9999”
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”

DGI-300E (Private) Card Risk Management Data DPA

	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Country Code	2	H	M	“0620”

Tabela 65 - DGI-300F (Private) Card Risk Management Data CAP

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300F”
Len DGI		1	H		
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	“0620”
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”
Val	CRM Currency Code	2	H	M	“9999”
Tag	Tag Card Issuer Action Code - Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code - Decline	1	H	M	“03”
Val	Card Issuer Action Code - Decline	3	H	M	“390000”
Tag	Tag Card Issuer Action Code - Default	1	H	M	“C4”
Len	Len Card Issuer Action Code - Default	1	H	M	“03”
Val	Card Issuer Action Code - Default	3	H	M	“000000”
Tag	Tag Card Issuer Action Code - Online	1	H	M	“C5”
Len	Len Card Issuer Action Code - Online	1	H	M	“03”
Val	Card Issuer Action Code - Online	3	H	M	“000000”

Tabela 66 - DGI-3212 Card Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3212”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	igual à aplic. pag.
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”

DGI-3212 Card Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Val	Personal Account Number (PAN)	7 8	H	M	igual à aplic. pag.
Tag	Tag Application PAN Seq Nbr	2	H	M	"5F34"
Len	Len Application PAN Seq Nbr	1	H	M	"01"
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	"00"
Tag	Tag Cardholder Verification Method List	1	H	M	"8E"
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	"0100"
Tag	Tag Application Version Number	2	H	M	"9F08"
Len	Len Application Version Number	1	H	M	"02"
Val	Application Version Number (AVN)	2	H	M	igual à aplic. pag.
Tag	Tag CDOL1	1	H	M	"8C"
Len	Len CDOL1	1	H	M	DPA - "15" CAP - "1E"
Val	CDOL1	21 30	H	M	igual à aplic. pag.
Tag	Tag CDOL2	1	H	M	"8D"
Len	Len CDOL2	1	H	M	DPA - "17" CAP - "06"
Val	CDOL2	23 6	H	M	igual à aplic. pag.
Tag	Tag IAF	2	H	M	"9F55"
Len	Len IAF	1	H	M	"01"
Val	IAF	1	H	M	"00"
Tag	Tag IPB	2	H	M	"9F56"
Len	Len IPB	1	H	M	B)
Val	IPB	var	H	M	

- A) Tamanho variável entre "0" e "60".
- B) Tamanho variável com máximo de "1D".

Tabela 67 - DGI-8000 DES UDK keys

DGI-8000 DES UDK keys					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"8000"
Len DGI		1	H		
Val	Unique DEA Key A (UDK A)	8	H	M	

DGI-8000 DES UDK keys					
	Nome	Dim	Form	Req	Conteúdo
Val	Unique DEA Key B (UDK B)	8	H	M	
Val	Message Authentication Code DEA Key A (UDK MAC A)	8	H	M	
Val	Message Authentication Code DEA Key B (UDK MAC B)	8	H	M	
Val	Data Encipherment DEA Key A (UDK ENC A)	8	H	M	
Val	Data Encipherment DEA Key B (UDK ENC B)	8	H	M	

Tabela 68 - DGI-8010 Offline PIN

DGI-8010 Offline PIN					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8010”
Len DGI		1	H		
Val	Reference PIN	8	H	M	

NOTA: Assume-se que esta DGI está sempre presente, mas o PIN *Offline* só será escrito no *chip*, se houver entre as várias aplicações, pelo menos uma CVM *List* que contenha o CVM *Offline PIN*. Caso contrário não será escrito.

Tabela 69 - DGI-8101 ICC Private Key (DDA / ICC PIN Encipherment) Exponent

DGI-8101 ICC Private Key (DDA / ICC PIN Encipherment) Exponent					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8101”
Len DGI		1	H		
Val	ICC Private Key (DDA / ICC PIN Encipherment) Exponent		H	M	A)

A) Pode ser preenchido com zeros.

Tabela 70 - DGI-8102 ICC Private Key (ICC PIN Encipherment) Exponent

DGI-8102 ICC Private Key (ICC PIN Encipherment) Exponent					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8102”
Len DGI		1	H		
Val	ICC Private Key (ICC PIN Encipherment) Exponent		H	M	

Tabela 71 - DGI-8103 ICC Private Key (DDA / ICC PIN Encipherment) Modulus

DGI-8103 ICC Private Key (DDA / ICC PIN Encipherment) MODULUS					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8103”
Len DGI		1	H		
Val	ICC Private Key (DDA / ICC PIN Encipherment) Modulus		H	M	A)

A) Pode ser preenchido com zeros.

Tabela 72 - DGI-8104 ICC Private Key (ICC PIN Encipherment) Modulus

DGI-8104 ICC Private Key (ICC PIN Encipherment) Modulus					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8104”
Len DGI		1	H		
Val	ICC Private Key (ICC PIN Encipherment) Modulus		H	M	

Tabela 73 - DGI-8201 ICC Private key crt constant Q-1 mod p

DGI-8201 ICC Private key crt constant Q-1 mod p					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8201”
Len DGI		1	H		
Val	ICC Private Key CRT constant q-1 mod p		H	M	

Tabela 74 - DGI-8202 ICC Private key crt constant D mod (Q-1)

DGI-8202 ICC Private key crt constant D mod (Q-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8202”
Len DGI		1	H		
Val	ICC Private Key CRT constant d mod (q-1)		H	M	

Tabela 75 - DGI-8203 ICC Private key crt constant D mod (p-1)

DGI-8203 ICC Private key crt constant D mod (p-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8203”
Len DGI		1	H		

DGI-8203 ICC Private key crt constant D mod (p-1)

	Nome	Dim	Form	Req	Conteúdo
Val	ICC Private Key CRT constant d mod (p-1)		H	M	

Tabela 76 - DGI-8204 ICC Private key crt constant Prime Factor Q
DGI-8204 ICC PRIVATE key crt constant PRIME FACTOR Q

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8204”
Len DGI		1	H		
Val	ICC Private Key CRT constant prime factor q		H	M	

Tabela 77 - DGI-8205 ICC Private key crt constant Prime Factor P
DGI-8205 ICC Private key crt constant Prime Factor P

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8205”
Len DGI		1	H		
Val	ICC Private Key CRT constant prime factor p		H	M	

Tabela 78 - DGI-8301 ICC PIN Encipherment Private key crt constant Q-1 mod p
DGI-8301 ICC PIN Encipherment Private key crt constant Q-1 mod p

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8301”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant q-1 mod p		H	M	

Tabela 79 - DGI-8302 ICC PIN Encipherment Private key crt constant D mod (Q-1)
DGI-8302 ICC PIN ENCIPHERMENT PRIVATE key crt constant D mod (Q-1)

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8302”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant d mod (q-1)		H	M	

Tabela 80 - DGI-8303 ICC PIN Encipherment Private key crt constant D mod (p-1)

DGI-8303 ICC PIN Encipherment Private key crt constant D mod (p-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8303”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant d mod (p-1)		H	M	

Tabela 81 - DGI-8304 ICC PIN Encipherment Private key crt constant Prime Factor Q

DGI-8304 ICC PIN ENCIPHERMENT PRIVATE key crt constant PRIME FACTOR Q					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8304”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant prime factor q		H	M	

Tabela 82 - DGI-8305 ICC PIN Encipherment Private key crt constant Prime Factor P

DGI-8305 ICC PIN ENCIPHERMENT PRIVATE key crt constant PRIME FACTOR P					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8305”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant prime factor p		H	M	

Tabela 83 - DGI-8400 DES CVC3 Keys

DGI-8400 DES CVC3 Keys					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8400”
Len DGI		1	H		
Val	CVC3 Generation Key A (KD_CVC3 A)	8	H	M	
Val	CVC3 Generation Key B (KD_CVC3 B)	8	H	M	

Tabela 84 - DGI-9000 DES Key Check Values

DGI-9000 DES Key Check Values					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9000”

DGI-9000 DES Key Check Values

	Nome	Dim	Form	Req	Conteúdo
Len DGI		1	H		
Val	Key Check Value for UDK Keys	3	H	M	
Val	Key Check Value for UDK MAC Keys	3	H	M	
Val	Key Check Value for UDK ENC Keys	3	H	M	

Tabela 85 - DGI-9001 DES Key Check Values CVC3
DGI-9001 DES Key Check Values CVC3

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9001”
Len DGI		1	H		
Val	Key Check Value for CVC3 Key	3	H	M	

Tabela 86 - DGI-9010 Offline PIN Data
DGI-9010 Offline PIN Data

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9010”
Len DGI		1	H		
Tag	Tag PIN Try Counter	2	H	M	“9F17”
Len	Len PIN Try Counter	1	H	M	“02”
Val	PIN Try Counter	1	H	M	
Val	PIN Try Limit	1	H	M	“03”

NOTA: Assume-se que esta DGI está sempre presente, mas o PIN Offline só é escrito no chip, se houver entre as várias aplicações, pelo menos uma CVM List que contenha o CVM Offline PIN. Caso contrário não é escrito.

Tabela 87 - Offline PIN Data Sem Tags
DGI-9010 Offline PIN Data Sem Tags

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9010”
Len DGI		1	H		
Val	PIN Try Counter	1	H	M	
Val	PIN Try Limit	1	H	M	“03”

Tabela 88 - DGI-9102 Select Response Data VSDC

DGI-9102 Select Response Data VSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	O	“9F38”
Len	Len PDOL	1	H	O	A)
Val	PDOL	var	H	O	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”

- A) Tamanho variável, com um máximo “0E”.

Tabela 89 - DGI-9102 Select Response Data VSDC [SDA]

DGI-9102 Select Response Data VSDC [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	B)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	O	“9F38”
Len	Len PDOL	1	H	O	A)
Val	PDOL	var	H	O	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	

DGI-9102 Select Response Data VSDC [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

- A) Tamanho variável, com um máximo “0E”;
 B) Tamanho variável entre “05” e “10”.

Tabela 90 - DGI-9102 Select Response Data M/Chip
DGI-9102 Select Response Data M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”

DGI-9102 Select Response Data M/Chip

	Nome	Dim	Form	Req	Conteúdo
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	“0620”
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

A) Tamanho variável entre “05” e “10”.

Tabela 91 - DGI-9102 Select Response Data M/Chip [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”

DGI-9102 Select Response Data M/Chip [SDA]

	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	“0620”
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

A) Tamanho variável entre “05” e “10”.

Tabela 92 - DGI-9102 Select Response Data CAP/DPA
DGI-9102 Select Response Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H	M	“9102”
Len DGI		1	H	M	
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	DPA: “56495341204155542020202020202020” (VISA AUT) CAP: “4D415354455243415244204155542020” (MASTERCARD AUT)
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“04”
Val	Language Preference	4	H	M	”7074656E” (pten)
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”

DGI-9102 Select Response Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Code Table Index	1	H	M	"01"

A) Tamanho variável entre "05" e "10".

Tabela 93 - DGI-9102 Select Response Data AMEX
DGI-9102 Select Response Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"9102"
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	"6F"
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	"84"
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	"A5"
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	"50"
Len	Len Application Label	1	H	M	"10"
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	"87"
Len	Len Application Priority Indicator	1	H	M	"01"
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	"5F2D"
Len	Len Language Preference	1	H	M	"02" "04"
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	"9F11"
Len	Len Issuer Code Table Index	1	H	M	"01"
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	"9F12"
Len	Len Application Preferred Name	1	H	M	"10"
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	"BF0C"
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	"DF48"

DGI-9102 Select Response Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	

A) Tamanho variável entre “05” e “10”.

Tabela 94 - DGI-9103 Select Response Data VISA Paywave
DGI-9103 Select Response Data VISA Paywave.

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9103”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	B)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	M	“9F38”
Len	Len PDOL	1	H	M	A)
Val	PDOL	var	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	

DGI-9103 Select Response Data VISA Paywave.

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”

- A) Tamanho variável, com um máximo “0E”.
- B) Tamanho variável entre “05” e “10”.

Tabela 95 - DGI-9104 Get Processing Options Response Data

DGI-9104 Get Processing Options Response Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	Contact-Only MasterCard/Maestro DDA: 08010100 10010201 18010200 A8010400 Paypass MasterCard/Maestro DDA-DDA: 08020200 10020301 18030400

DGI-9104 Get Processing Options Response Data

	Nome	Dim	Form	Req	Conteúdo
					A8010400 Paywave VISA/Electron DDA-DDA 08020200 10010200 18010201 50010400 Contact-Only VISA/Electron VIS 1.4.1 08010200 10010200 18010201 50010400

A) Tamanho variável, com um máximo de “20”.

Tabela 96 - DGI-9104 Get Processing Options Response Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	“1000”
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	

A) Tamanho variável entre “0” e “20”.

Tabela 97 - DGI-9104 Get Processing Options Response Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	“5C00”
Tag	Tag Application File Locator	1	H	M	“94”

DGI-9104 Get Processing Options Response Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	AMEX: “0801020008030301” (MB-AMEX): “080102000803030150010100”

A) Tamanho variável entre “0” e “20”.

Tabela 98 - DGI-9200 Generate AC Response Data VISA

DGI-9200 Generate AC Response Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“07”
Val	IAD Len Indicator	1	H	M	“06”
	Derivation Key Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	
	CVR Len Indicator	1	H	M	“03”
	Card Verification Results (CVR)	3	H	M	“000000”

Tabela 99 - DGI-9200 Generate AC Response Data MasterCard

DGI-9200 GENERATE AC Response Data MASTERCARD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“02”
Val	Key Derivation Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	

Tabela 100 - DGI-9206 Get Processing Options VISA PayWave MSD

DGI-9206 Get Processing Options VISA PayWave MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9206”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayWave -MSD)	1	H	M	“82”
Len	Len Application Interchange Profile (PayWave-MSD)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayWave-MSD)	2	H	M	“0080”
Tag	Tag Application File Locator (PayWave-MSD)	1	H	M	“94”
Len	Len Application File Locator (PayWave-MSD)	1	H	M	A)
Val	Application File Locator (AFL) (PayWave-MSD)	var	H	M	“08010100”

A) Tamanho variável entre “0” e “20”.

Tabela 101 - DGI-9207 Get Processing Options VISA PayWave QVSDC

DGI-9207 Get Processing Options VISA PayWave QVSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9207”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayWave-qVSDC)	1	H	M	“82”
Len	Len Application Interchange Profile (PayWave-qVSDC)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayWave-qVSDC)	2	H	M	“2000”
Tag	Tag Application File Locator (PayWave-qVSDC)	1	H	M	“94”
Len	Len Application File Locator (PayWave-qVSDC)	1	H	M	A)
Val	Application File Locator (AFL) (PayWave-qVSDC)	var	H	M	
Tag	Tag Issuer Application Data (PayWave-qVSDC)	2	H	M	“9F10”
Len	Len Issuer Application Data (PayWave-qVSDC)	1	H	M	“07”
Val	Issuer Application Data (AFL) (PayWave-qVSDC)	7	H	M	“06011103000000”

A) Tamanho variável entre “0” e “20”.

Tabela 102 - DGI-A001 Alternate Select Response M/Chip

DGI-A001 Alternate Select Response M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A001”
Len DGI		1	H		

DGI-A001 Alternate Select Response M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	“0620”
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Client Log Entry	2	H	M	“0B0A”

A) Tamanho variável entre “05” e “10”.

Tabela 103 - DGI-A002 Persistent Data Elements M/Chip

DGI-A002 Persistent Data Elements M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A002”
Len DGI		1	H		
Tag	Tag Application Control	1	H	M	“D5”
Len	Len Application Control	1	H	M	“02”
Val	Application Control	2	H	M	“0000”-MasterCard sem Pin “0800”-MasterCard com Pin “0800”-Maestro (com Pin)
Tag	Tag Default ARPC Response Code	1	H	M	“D6”
Len	Len Default ARPC Response Code	1	H	M	“02”
Val	Default ARPC Response Code	2	H	M	“0010” para Maestro e “0012” para MasterCard
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Card Issuer Action Code – Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code – Decline	1	H	M	“03”
Val	Card Issuer Action Code – Decline	3	H	M	
Tag	Tag Card Issuer Action Code – Default	1	H	M	“C4”
Len	Len Card Issuer Action Code – Default	1	H	M	“03”
Val	Card Issuer Action Code – Default	3	H	M	
Tag	Tag Card Issuer Action Code – Online	1	H	M	“C5”
Len	Len Card Issuer Action Code – Online	1	H	M	“03”
Val	Card Issuer Action Code – Online	3	H	M	
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”

DGI-A002 Persistent Data Elements M/Chip

	Nome	Dim	Form	Req	Conteúdo
Val	CRM Currency Code	2	H	M	“0978”
Tag	Tag Currency Conversion Table	2	H	M	“D1”
Len	Len Currency Conversion Table	1	H	M	“19”
Val	Currency Conversion Table	25	H	M	(5 entradas, devem vir todas preenchidas, mesmo com valores <i>dummy</i>)
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	
Tag	Tag CDOL1 Related Data Length	1	H	M	“C7”
Len	Len CDOL1 Related Data Length	1	H	M	“01”
Val	CDOL1 Related Data Length	1	H	M	“2B”-MChipSelect-DDA
Tag	Tag Additional Check Table	1	H	M	“D3”
Len	Len Additional Check Table	1	H	M	“12”
Val	Additional Check Table	18	H	M	“000000000 00000000”

Tabela 104 - DGI-A003 CFDC Key Limits M/Chip
DGI-A003 CFDC Key Limits M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A003”
Len DGI		1	H		
Val	CFDC Limit SMI	1	H	M	“03”
Val	CFDC Limit SMC	1	H	M	“03”
Val	CFDC Limit AC	1	H	M	“03”

Tabela 105 - DGI-A005 Alternate Get Processing Options M/chip
DGI-A005 ALTERNATE GET PROCESSING OPTIONS MCHIP

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A005”
Len DGI		1	H		
Val	Application Interchange Profile (AIP)	2	H	M	
Val	Application File Locator (AFL)		H	M	

Tabela 106 - DGI-A006 ICC Dynamic Number Master Key M/Chip

DGI-A006 ICC Dynamic Number Master Key M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A006”
Len DGI		1	H		
Val	ICC Dynamic Number Master Key A	8	H	M	
Val	ICC Dynamic Number Key B	8	H	M	

Tabela 107 - DGI-A007 Persistent Data Elements M/Chip - 1

DGI-A007 Persistent Data Elements M/Chip - 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A007”
Len DGI		1	H		
Val	Application Transaction Counter Limit	2	H	M	“FFFF”
Val	Previous Transaction History	1	H	M	“00”-ContactOnly “08”-Contactless- ContactMode
Val	MAC in Script Counter Limit	1	H	M	“0F”
Val	Global MAC in Script Counter Limit	3	H	M	“FFFFFF”
Val	Key Derivation Index	1	H	M	

Tabela 108 - DGI-A007 Persistent Data Elements M/Chip - 2

DGI-A007 PERSISTENT DATA ELEMENTS M/CHIP - 2					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A007”
Len DGI		1	H		
Val	Application Transaction Counter Limit	2	H	M	“FFFF”
Val	Previous Transaction History	1	H	M	“00” - ContactOnly “08” - Contactless - ContactMode
Val	AC Session Key Counter Limit	2	H	M	“FFFF”
Val	SMI Session Key Counter Limit	2	H	M	“FFFF”
Val	Key Derivation Index	1	H	M	

Tabela 109 - DGI-A008 Bad Cryptogram Counter Limit M/Chip

DGI-A008 Bad Cryptogram Counter Limit M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A008”
Len DGI		1	H		

DGI-A008 Bad Cryptogram Counter Limit M/Chip

	Nome	Dim	Form	Req	Conteúdo
Val	Bad Cryptogram Counter Limit	2	H	M	“0400”

Tabela 110 - DGI-B002 (Private) Card Risk Management Data MasterCard PayPass

DGI-B002 (Private) Card Risk Management Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B002”
Len DGI		1	H		
Tag	Tag Application Control PayPass	1	H	M	“D7”
Len	Len Application Control PayPass	1	H	M	“03”
Val	Application Control PayPass	3	H	M	“000040”-PayPass MasterCard DDA-DDA “000080”- PayPass Maestro DDA-DDA
Tag	Tag IVCVC3_TRACK1	1	H	M	“DC”
Len	Len IVCVC3_TRACK1	1	H	M	“02”
Val	Card IVCVC3_TRACK1	2	H	M	
Tag	Tag IVCVC3_TRACK2	1	H	M	“DD”
Len	Len IVCVC3_TRACK2	1	H	M	“02”
Val	Card IVCVC3_TRACK2	2	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Decline	1	H	M	“CF”
Len	Len Card Issuer Action Code (PayPass) – Decline	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Decline	3	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Default	1	H	M	“CD”
Len	Len Card Issuer Action Code (PayPass) – Default	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Default	3	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Online	1	H	M	“CE”
Len	Len Card Issuer Action Code (PayPass) – Online	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Online	3	H	M	

Tabela 111 - DGI-B005 Get Processing Options MasterCard PayPass

DGI-B005 Get Processing Options MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B005”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayPass)	1	H	M	“D8”
Len	Len Application Interchange Profile (PayPass)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayPass)	2	H	M	“5880”

DGI-B005 Get Processing Options MasterCard PayPass

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application File Locator (<i>PayPass</i>)	1	H	M	“D9”
Len	Len Application File Locator (<i>PayPass</i>)	1	H	M	“10”
Val	Application File Locator (AFL) (<i>PayPass</i>)	16	H	M	“08010100 10010101 18010200 20010200”

3.2.5.5.5.3 DGI a utilizar para a versão 2 do ficheiro PERS
Tabela 112 - Tabela de Combinação de DGI - PERS v2

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0101	Track Data VISA	KS CIF	✓	✓																
DGI-0101	Track Data MasterCard [SDA]	KS CIF									✓				✓					
DGI-0101	Track Data MasterCard	KS CIF														✓				
DGI-0101	Track Data VISA PayWave MSD	KS CIF				✓														
DGI-0101	Track Data MasterCard PayPass MagStripe	KS CIF													✓					
DGI-0101	Track Data and Authentication & Unsigned Data AMEX	KS CIF																✓	✓	
DGI-0101	Track Data and Authentication Data AMEX [SDA]	KS CIF															✓	✓		
DGI-0102	Track Data VISA	KS CIF			✓										✓					
DGI-0102	Track Data MasterCard	KS CIF																		

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)	
DGI-0102	Cardholdername		✓	✓			✓	✓			✓										
DGI-0102	Cardholdername AMEX																		✓	✓	
DGI-0102	Unsigned Card Data AMEX [SDA]																	✓	✓		
DGI-0103	Signed Card Data AMEX	KS CIF																		✓	✓
DGI-0103	Signed Card Data AMEX [SDA]	KS CIF																✓	✓		
DGI-0103	Cardholdername				✓												✓				
DGI-0104	ISS PK Certificate																			✓	✓
DGI-0105	ICC PK Certificate																			✓	✓
DGI-0201	Dynamic Authentication Data			✓	✓			✓													
DGI-0201	Signed Card Data VISA [SDA]	KS CIF	✓				✓														
DGI-0201	Signed Card Data MasterCard	KS CIF								✓	✓						✓	✓			
DGI-0201	Signed Card Data MasterCard PayPass	KS CIF						✓	✓			✓									
DGI-0202	Static Authentication Data				✓	✓	✓	✓	✓												

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0202	Unsigned Card Data VISA [SDA]		✓				✓													
DGI-0202	Signed Card Data MasterCard	KS CIF										✓								
DGI-0202	Unsigned Card Data MasterCard										✓									
DGI-0202	Unsigned Card Data MasterCard [SDA]									✓										
DGI-0203	Static Authentication Data - 1 [SDA]			✓				✓												✓
DGI-0203	Static Authentication Data - 2 [SDA]									✓										
DGI-0203	Unsigned Card Data MasterCard												✓							
DGI-0203	Dynamic Authentication Data VISA PayWave	KS CIF				✓														
DGI-0204	Signed Static Application Data [SDA]			✓				✓		✓							✓			
DGI-0301	Static Authentication Data											✓				✓			✓	
DGI-0301	Signed Card Data VISA	KS CIF		✓	✓			✓												
DGI-0302	Dynamic Authentication Data											✓				✓				
DGI-0302	Signed Static Application Data																			

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0302	Unsigned Card Data VISA			✓	✓			✓											
DGI-0303	Static Authentication Data											✓							
DGI-0304	Dynamic Authentication Data										✓								
DGI-0401	Dynamic Authentication Data MasterCard PayPass												✓						
DGI-0402	Dynamic Authentication Certificate MasterCard PayPass												✓						
DGI-0A01	Proprietary Tag Usage – GERAL		✓	✓	✓		✓	✓						✓	✓		✓	✓	
DGI-0A02	Proprietary Tag Usage – Linha de Crédito		✓	✓	✓		✓	✓						✓	✓				
DGI-0A03	Proprietary Tag Usage – Fidelização		✓	✓	✓		✓	✓						✓	✓				
DGI-0A04	Proprietary Tag Usage – Programa de Emissor		✓	✓	✓		✓	✓						✓	✓				
DGI-0D01	(Internal) Card Risk Management Data VSDC			✓					✓										
DGI-0D01	(Internal) Card Risk Management Data VSDC [SDA]		✓				✓												

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0D01	(Internal) Card Risk Management Data AMEX																✓	✓	✓
DGI-0D01	(Internal) Card Risk Management Data AMEX [SDA]																✓	✓	
DGI-0D01	(Internal) Card Risk Management Data M/Chip [SDA]									✓						✓			
DGI-0E01	(Private) Card Risk Management Data VSDC		✓	✓						✓	✓								
DGI-0E01	(Private) Card Risk Management Data AMEX [SDA]																✓	✓	
DGI-0E01	(Private) Card Risk Management Data M/Chip [SDA]									✓						✓			
DGI-0E01	Card Private Data VISA PayWave – Part 1	KS CIF			✓	✓													
DGI-0E01	Card Private Data VISA PayWave – Part 2	KS CIF			✓	✓													
DGI-1501	Proprietary Tag Usage – GERAL									✓	✓	✓							
DGI-1502	Proprietary Tag Usage – Linha de Crédito									✓	✓	✓							

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-1503	Proprietary Tag Usage – Fidelização									✓	✓	✓								
DGI-1504	Proprietary Tag Usage – Programa de Emissor									✓	✓	✓								
DGI-2000	ICC PUBLIC KEY			✓	✓	✓		✓			✓	✓	✓	✓	✓					
DGI-300C	(Internal) Card Risk Management Data DPA									✓										
DGI-300D	(Internal) Card Risk Management Data CAP																	✓		
DGI-300E	(Private) Card Risk Management Data DPA									✓										
DGI-300F	(Private) Card Risk Management Data CAP																	✓		
DGI-3212	Card Data CAP/DPA	KS CIF								✓								✓		
DGI-8000	DES UDK Keys	KS KEY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DGI-8001	Alternate DES UDK Key for MSD	KS KEY				✓														
DGI-8010	Offline PIN	KS PIN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DGI-8101	ICC Private Key (DDA / ICC PIN Encipherment) Exponent	KS KEY		✓	✓			✓			✓	✓	✓	✓	✓	✓		✓	✓	✓

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-8102	ICC Private Key (ICC PIN Encipherment) Exponent	KS KEY																		
DGI-8103	ICC Private Key (DDA / ICC PIN Encipherment) Modulus	KS KEY		✓	✓	✓		✓			✓	✓	✓	✓	✓				✓	✓
DGI-8104	ICC Private Key (ICC PIN Encipherment) Modulus	KS KEY																		
DGI-8201	ICC Private Key CRT Constant $q^{-1} \text{ mod } p$	KS KEY		✓	✓	✓		✓			✓	✓	✓	✓	✓				✓	✓
DGI-8202	ICC Private Key CRT Constant d mod ($q-1$)	KS KEY		✓	✓	✓		✓			✓	✓	✓	✓	✓				✓	✓
DGI-8203	ICC Private Key CRT Constant d mod ($p-1$)	KS KEY		✓	✓	✓		✓			✓	✓	✓	✓	✓				✓	✓
DGI-8204	ICC Private Key CRT Constant prime factor q	KS KEY		✓	✓	✓		✓			✓	✓	✓	✓	✓				✓	✓
DGI-8205	ICC Private Key CRT Constant prime factor p	KS KEY		✓	✓	✓		✓			✓	✓	✓	✓	✓				✓	✓
DGI-8301	ICC PIN Encipherment Private Key CRT Constant $q^{-1} \text{ mod } p$	KS KEY																		
DGI-8302	ICC PIN Encipherment Private Key CRT Constant d mod ($q-1$)	KS KEY																		

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (DDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-8303	ICC PIN Encipherment Private Key CRT Constant d mod (p-1)	KS KEY																		
DGI-8304	ICC PIN Encipherment Private Key CRT Constant prime factor q	KS KEY																		
DGI-8305	ICC PIN Encipherment Private Key CRT Constant prime factor p	KS KEY																		
DGI-8400	DES CVC3 Keys	KS KEY															✓			
DGI-9000	DES Key Check Values		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DGI-9001	DES Key Check Values CVC3															✓				
DGI-9010	Offline PIN Data		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DGI-9102	SELECT Response Data VSDC			✓	✓			✓												
DGI-9102	SELECT Response Data VSDC [SDA]			✓				✓												
DGI-9102	SELECT Response Data M/Chip											✓	✓	✓	✓		✓			
DGI-9102	SELECT Response Data M/Chip [SDA]										✓			✓						

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-9102	SELECT Response Data CAP/DPA								✓											
DGI-9102	SELECT Response Data AMEX																		✓	✓
DGI-9102	SELECT Response Data AMEX [SDA]																	✓	✓	
DGI-9103	SELECT Response Data VISA PAYWAVE					✓														
DGI-9104	GET PROCESSING OPTIONS Response Data		✓	✓	✓		✓	✓		✓	✓	✓		✓	✓					
DGI-9104	GET PROCESSING OPTIONS Response Data CAP/DPA									✓								✓		
DGI-9104	GET PROCESSING OPTIONS Response Data AMEX																	✓	✓	✓
DGI-9200	GENERATE AC Response Data VISA		✓	✓	✓		✓	✓									✓	✓		
DGI-9200	GENERATE AC Response Data MASTERCARD									✓					✓					
DGI-9200	GENERATE AC Response Data AMEX																		✓	✓
DGI-9206	GET PROCESSING OPTIONS VISA PayWave MSD						✓													

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VSDC) (Contact-Only) (DDA)	Paywave VISA / Electron (VCPS) (Contact-Mode) (DDA)	PayWave VISA / Electron (VCPS) (Contactless-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (DDA)	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)	
DGI-9207	GET PROCESSING OPTIONS VISA PayWave qVSDC				v							v									
DGI-A001	Alternate Select Response Mchip											v									
DGI-A002	Persistent Data Elements M/Chip											v	v								
DGI-A003	CFDC Key Limits M/Chip											v	v								
DGI-A005	Alternate Get Procession Options Mchip											v	v								
DGI-A006	ICC Dynamic Number Master KEY M/Chip	KS KEY										v	v	v							
DGI-A007	Persistent Data Elements M/Chip - 1											v	v	v							
DGI-A007	Persistent Data Elements M/Chip - 2											v	v	v							
DGI-A008	Bad Cryptogram Counter Limit M/Chip											v	v	v							
DGI-B002	(Private) Card Risk Management Data MASTERCARD PayPass											v									
DGI-B005	GET PROCESSING OPTIONS MASTERCARD PayPass											v									

3.2.5.5.4 Layout das DGI - PERS v2

Na tabela seguinte é detalhada a composição de cada uma das possíveis DGI.

Os elementos de dados que formam as DGI podem decompor-se em:

- **TLV:** Tag, Length e Value do Elemento. Caso dos elementos de dados simples.
- **TL:** Só Tag e Length. Caso dos elementos de dados compostos por outros Elementos.
- **V:** Só Value. Caso dos elementos de dados que não têm Tag atribuída em (1), (7), (10) e (19).

Em qualquer dos casos, cada componente (T, L ou V) ocupa uma linha na tabela.

Para cada componente do Elemento de Dados, é indicado:

- **Nome.** De acordo com (1), (4) e (12).
- **Dim (Dimensão).** Dimensão efetiva (em caracteres) com que o Elemento vem no Ficheiro de Personalização. n1-n2 representa um intervalo. n3 n4 representa 2 valores possíveis.
- **Form (Formato). Formato dos dados no Ficheiro PERS:**
 - **ASCII:** representação ASCII do texto.
 - **Binary:** Varia entre “0” e “9”, “A” e “F”.
 - **H - Hexadecimal:** Varia entre ‘0’ e ‘9’, ‘A’ e ‘F’”.
- **Req (Requisito). Presença do elemento na DGI:**
 - **M: Mandatório.** Elemento sempre presente na DGI (quando esta exista).
 - **O: Opcional.** O elemento pode não estar presente na DGI.

Conteúdo. Os valores apresentados nesta coluna devem ser considerados como informativos.

Tabela 113 - DGI-0101 Track Data VISA; DGI-0102 Track Data VISA; DGI-0203 Track Data VISA

DGI-0101 Track Data VISA DGI-0102 Track Data VISA DGI-0203 Track Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101” “0102” “0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”

DGI-0101 Track Data VISA
 DGI-0102 Track Data VISA
 DGI-0203 Track Data VISA

	Nome	Dim	Form	Req	Conteúdo
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 114 - DGI-0101 *Track Data MasterCard [SDA]*

DGI-0101 Track Data MasterCard [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 115 - DGI-0101 *Track Data MasterCard*; DGI-0102 *Track Data MasterCard*

DGI-0101 Track Data MasterCard DGI-0102 Track Data MasterCard					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0101” “0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	

Tabela 116 - DGI-0101 Track Data VISA Paywave MSD

DGI-0101 Track Data VISA PAYWAVE MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Cardholdername	2	H	O	“5F20”
Len	Len Cardholdername	1	H	O	“1A”
Val	Cardholdername	26	H	O	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 117 - DGI-0101 Track Data MasterCard PayPass MagStripe

DGI-0101 Track Data MASTERCARD PayPass MagStripe					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag MagStripe AVN	2	H	M	“9F6C”
Len	Len MagStripe AVN	1	H	M	“02”
Val	MagStripe AVN	2	H	M	MasterCard: “0001” Maestro: “FFFF”
Tag	Tag Track 1 Bit Map for CVC3 (*)	2	H	M	“9F62”
Len	Len Track 1 Bit Map for CVC3 (*)	1	H	M	“06”
Val	Track 1 Bit Map for CVC3 (*)	6	H	M	
Tag	Tag Track 1 Bit Map for UN and ATC (*)	2	H	M	“9F63”
Len	Len Track 1 Bit Map for UN and ATC (*)	1	H	M	“06”
Val	Track 1 Bit Map for UN and ATC (*)	6	H	M	
Tag	Tag Track 1 Data (*)	1	H	M	“56”
Len	Len Track 1 Data (*)	1	H	M	Até “4C”

DGI-0101 Track Data MASTERCARD PayPass MagStripe

	Nome	Dim	Form	Req	Conteúdo
Val	Track 1 Data (*)	Até 76	ASCII	M	
Tag	Tag Track 1 Number for ATC Digits (*)	2	H	M	"9F64"
Len	Len Track 1 Number for ATC Digits (*)	1	H	M	"01"
Val	Track 1 Number for ATC Digits (*)	1	H	M	
Tag	Tag Track 2 Bit Map for CVC3 (*)	2	H	M	"9F65"
Len	Len Track 2 Bit Map for CVC3 (*)	1	H	M	"02"
Val	Track 2 Bit Map for CVC3 (*)	2	H	M	
Tag	Tag Track 2 Bit Map for UN and ATC (*)	2	H	M	"9F66"
Len	Len Track 2 Bit Map for UN and ATC (*)	1	H	M	"02"
Val	Track 2 Bit Map for UN and ATC (*)	2	H	M	
Tag	Tag Track 2 Data (*)	2	H	M	"9F6B"
Len	Len Track 2 Data (*)	1	H	M	Até "13"
Val	Track 2 Data (*)	Até 19	H	M	
Tag	Tag Track 2 Number for ATC Digits (*)	2	H	M	"9F67"
Len	Len Track 2 Number for ATC Digits (*)	1	H	M	"01"
Val	Track 2 Number for ATC Digits (*)	1	H	M	

(*) Estes elementos não vêm para PayPass Maestro.

Tabela 118 - DGI-0101 Track Data & Authentication & Unsigned Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0101"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	"57"
Len	Len Track 2 Equivalent Data	1	H	M	"13"
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag CDOL1	1	H	M	"8C"
Len	Len CDOL1	1	H	M	"15"
Val	CDOL1	21	H	M	"9F02069F03069F1A0295 055F2A029A039C019F 3704"
Tag	Tag CDOL2	1	H	M	"8D"
Len	Len CDOL2	1	H	M	"17"

DGI-0101 Track Data & AUTHENTICATION & UNSIGNED DATA AMEX					
	Nome	Dim	Form	Req	Conteúdo
Val	CDOL2	23	H	M	"8A029F02069F03069F1A0295055F2A029A039C019F3704"
Tag	Tag Application Version Number	2	H	M	"9F08"
Len	Len Application Version Number	1	H	M	"02"
Val	pplication Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	1	H	M	"9F42"
Len	Len Application Currency Code	1	H	M	"02"
Val	Application Currency Code	2	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	"8F"
Len	Len Certification Authority Public Key Index	1	H	M	"01"
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	"9F32"
Len	Len Issuer PK Exponent	1	H	M	"01"
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	"92"
Len	Len Issuer PK Remainder	1	H	O	
Val	Issuer PK Remainder		H	O	
Tag	Tag ICC Public Key Exponent	1	H	M	"9F47"
Len	Len ICC Public Key Exponent	1	H	M	"01"
Val	ICC Public Key Exponent	1	H	M	
Tag	Tag ICC Public Key Remainder	1	H	M	"9F48"
Len	Len ICC Public Key Remainder	1	H	M	
Val	ICC Public Key Remainder		H	M	
Tag	Tag Dynamic Data Object List	1	H	M	"9F49"
Len	Len Dynamic Data Object List	1	H	M	"03" "10"
Val	ICC Dynamic Data Object List (DDOL)	3 16	H	M	"9F3704" "9F1A029F1C085F2A029A039C019F3704"
Tag	Tag Static Data Authentication Tag List	2	H	M	"9F4A"
Len	Len Static Data Authentication Tag List	1	H	M	"01"
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	"82"

Tabela 119 - DGI-0101 Track Data and Authentication Data AMEX [SDA]

DGI-0101 Track Data and Authentication Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0101"

DGI-0101 Track Data and Authentication Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder		H	O	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	“82”

 Tabela 120 - DGI-0102 *Cardholder Name*; DGI-0103 *Cardholder Name*

DGI-0102 Cardholder Name					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0102” “0103”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	

Tabela 121 - DGI-0102 Cardholdername AMEX

DGI-0102 Cardholdername AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	
Val	Cardholder Name		H	M	

Tabela 122 - DGI-0102 Unsigned Card Data AMEX [SDA]

DGI-0102 Unsigned Card Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	“15”
Val	CDOL1	21	H	M	“9F02069F03069F1A0295055F2A029A039C019F3704”
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	
Tag	Tag Signed Static Application Data	1	H	M	“93”
Len	Len Signed Static Application Data	1	H	M	“70”
		2			“8190”
Val	Signed Static Application Data (SSAD)	144	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	1	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H		“8E”
Len	Len Cardholder Verification Method List	1	H		A)

DGI-0102 Unsigned Card Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Cardholder Verification Method List (CVM List)	var	H		

- A) Tamanho variável entre “0” e “60”.
- B) Tamanho variável, com um máximo “17”.

Tabela 123 - DGI-0103 Signed Card Data AMEX

DGI-0103 Signed Card Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0103”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes – Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes – Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes – Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	

DGI-0103 Signed Card Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	
Val	Cardholder Verification Method List (CVM List)		H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo das *tags* informadas na SDA *Tag List* (ou seja, o AIP).

Tabela 124 - DGI-0103 Signed Card Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0103”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes – Default	1	H	M	“05”

DGI-0103 Signed Card Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes – Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes – Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

Tabela 125 - DGI-0104 ISS PK Certificate

DGI-0104 ISS PK Certificate					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0104”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	“81XX”
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX”
Val	Issuer PK Certificate		H	M	

Tabela 126 - DGI-0105 ICC PK Certificate

DGI-0105 ICC PK Certificate					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0105”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”

DGI-0105 ICC PK Certificate

	Nome	Dim	Form	Req	Conteúdo
Len	Len AEF Data Template	2	H	M	“81XX”
Tag	Tag ICC Public Key Certificate	2	H	M	“9F46”
Len	Len ICC Public Key Certificate	2	H	M	“81XX”
Val	ICC Public Key Certificate		H	M	

Tabela 127 - DGI-0201 Dynamic Authentication Data; DGI-0302 Dynamic Authentication Data; DGI-0304 Dynamic Authentication Data

	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0201” “0302” “0304”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag ICC PK Certificate	2	H	M	“9F46”
Len	Len ICC PK Certificate	1	H	M	“70”
		2			“8180”
		2			“8190”
Val	ICC PK Certificate		H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder		H	O	
Tag	Tag DDOL	2	H	M	“9F49”
Len	Len DDOL	1	H	M	“03” “10”
Val	DDOL	3	H	M	“9F3704” “9F1A029F1C085F2A029A039C019F3704”

Tabela 128 - DGI-0201 Signed Card Data VISA [SDA]

DGI-0201 Signed Card Data VISA [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0201”
Len DGI		1	H		

DGI-0201 Signed Card Data VISA [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Application PAN Seq Nbr	1	H	M	“5A”
Len	Len Application PAN Seq Nbr	1	H	M	“07” “08”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	7 8	H	M	
Tag	Tag Application Usage Control	2	H	M	“5F34”
Len	Len Application Usage Control	1	H	M	“01”
Val	Application Usage Control (AUC)	1	H	M	“00”
Tag	Tag Personal Account Number	2	H	M	“9F07”
Len	Len Personal Account Number	1	H	M	“02”
Val	Personal Account Number (PAN)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes - Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes - Default	1	H	M	“05”
Val	Issuer Action Codes - Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes - Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial	1	H	M	“05”
Val	Issuer Action Codes - Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes - Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online	1	H	M	“05”
Val	Issuer Action Codes - Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	1	H	M	“82”

NOTA: Para o cálculo do SSAD entram os dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.

Tabela 129 - DGI-0201 *Signed Card Data MasterCard*; DGI-0202 *Signed Card Data MasterCard*

DGI-0201 Signed Card Data MASTERCARD DGI-0202 Signed Card Data MASTERCARD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0201” “0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	B)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	C)
Val	CDOL2	var	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)

DGI-0201 Signed Card Data MASTERCARD					
DGI-0202 Signed Card Data MASTERCARD					
	Nome	Dim	Form	Req	Conteúdo
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes - Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes - Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes - Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List	1	H	M	“82”
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.
- B) Tamanho variável, com um máximo “15”.
- C) Tamanho variável, com um máximo de “17”.

Tabela 130 - DGI-0201 Signed Card Data MasterCard PayPass

DGI-0201 SIGNED Card Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0201”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data (PayPass)	1	H	M	“57”
Len	Len Track 2 Equivalent Data (PayPass)	1	H	M	“13”
Val	Track 2 Equivalent Data (PayPass)	19	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”

DGI-0201 SIGNED Card Data MasterCard PayPass

	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	B)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	C)
Val	CDOL2	var	H	M	
Tag	Tag Static Data Authentication Tag List (PayPass)	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List (PayPass)	1	H	M	“01”
Val	Static Data Authentication Tag List (SDA Tag List) (PayPass)	1	H	M	“82”
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Paypass Personal Account Number (PPAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Paypass Application PAN Seq Nbr (PPAN Seq Nbr)	1	H	M	“00”
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List (PayPass)	1	H	M	“8E”
Len	Len Cardholder Verification Method List (PayPass)	1	H	M	A)
Val	Cardholder Verification Method List (CVM List) (PayPass)	var	H	M	
Tag	Tag Issuer Action Codes – Default (PayPass)	2	H	M	“9F0D”

DGI-0201 SIGNED Card Data MasterCard PayPass

	Nome	Dim	Form	Req	Conteúdo
Len	Len Issuer Action Codes - Default (PayPass)	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default) (PayPass)	5	H	M	
Tag	Tag Issuer Action Codes - Denial (PayPass)	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial (PayPass)	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial) (PayPass)	5	H	M	
Tag	Tag Issuer Action Codes - Online (PayPass)	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online (PayPass)	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online) (PayPass)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”;
- B) Tamanho variável, com um máximo de “15”.
- C) Tamanho variável, com um máximo de “17”.

Tabela 131 - DGI-0202 Static Authentication Data; DGI-0203 Static Data Authentication Data - 2 [SDA]; DGI-0301 Static Authentication Data; DGI-0303 Static Authentication Data

DGI-0202 Static Authentication Data DGI-0203 Static Data Authentication Data - 2 [SDA] DGI-0301 Static Authentication Data DGI-0303 Static Authentication Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0202” “0203” “0301” “0303”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	“90”

DGI-0202 Static Authentication Data
DGI-0203 Static Data Authentication Data - 2 [SDA]
DGI-0301 Static Authentication Data
DGI-0303 Static Authentication Data

	Nome	Dim	Form	Req	Conteúdo
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder		H	O	

Tabela 132 - DGI-0202 *Unsigned Card Data MasterCard*; DGI-0203 *Unsigned Card Data MasterCard*

DGI-0202 UNSIGNED Card Data MasterCard DGI-0203 UNSIGNED Card Data MasterCard					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0202” “0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	

Tabela 133 - DGI-0202 *Unsigned Card Data MasterCard [SDA]*

DGI-0202 Unsigned Card Data MasterCard [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0202”
Len DGI		1	H		

DGI-0202 Unsigned Card Data MasterCard [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	A)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	

- A) Tamanho variável, com um máximo de “15”.
- B) Tamanho variável, com um máximo de “17”.

Tabela 134 - DGI-0203 Static Authentication Data - 1 [SDA]

DGI-0203 Static Data Authentication Data - 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	“82”
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”

DGI-0203 Static Data Authentication Data - 1

	Nome	Dim	Form	Req	Conteúdo
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	"90"
Len	Len Issuer PK Certificate	2	H	M	"81XX" "81XX"
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	"9F32"
Len	Len Issuer PK Exponent	1	H	M	"01"
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	"92"
Len	Len Issuer PK Remainder	1	H	O	"14"
Val	Issuer PK Remainder		H	O	

Tabela 135 - DGI-0203 Dynamic Authentication Data VISA Paywave

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0203"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	2	H	M	
Val	ICC PK Certificate		H	M	
	Tag ICC PK Certificate	2	H	M	"9F46"
	Len ICC PK Certificate	1	H	M	"70"
		2			"81XX"
		2			"81XX"
	ICC PK Certificate	var	H	M	
Tag	Tag ICC PK Exponent	2	H	M	"9F47"
Len	Len ICC PK Exponent	1	H	M	"01"
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	1	H	O	"9F48"
Len	Len ICC PK Remainder	1	H	O	"14"
Val	ICC PK Remainder		H	O	
Tag	Tag Personal Account Number (PAN)	1	H	M	"5A"
Len	Len Personal Account Number (PAN)	1	H	M	"07" "08"
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application Expiration Date	1	H	M	"5F24"
Len	Len Application Expiration Date	1	H	M	"03"

DGI-0203 Dynamic Authentication Data VISA Paywave

	Nome	Dim	Form	Req	Conteúdo
Val	Application Expiration Date	3	H	M	
Tag	Tag Application PAN Seq Nbr	1	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr	1	H	M	
Tag	Tag Card Authentication Related Data	1	H	M	“9F69”
Len	Len Card Authentication Related Data	1	H	M	A)
Val	Card Authentication Related Data	var	H	M	

- A) Tem tamanho variável, com um máximo “05”.

Tabela 136 - DGI-0204 Signed Static Application Data [SDA]; DGI-0302 Signed Static Application Data
DGI-0204 Signed Static Application Data [SDA]
DGI-0302 Signed Static Application Data

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0204” “0302”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1 2	H	M	
Tag	Tag Signed Static Application Data	1	H	M	“93”
Len	Len Signed Static Application Data	1 2	H	M	“70” “81XX”
Val	Signed Static Application Data (SSAD)	var	H	M	

Tabela 137 - DGI-0301 Signed Card Data VISA
DGI-0301 Signed Card Data VISA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0301”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	

DGI-0301 Signed Card Data VISA

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes – Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes – Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes – Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List	1	H	M	“82”

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo amarelo, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.

Tabela 138 - DGI-0302 Unsigned Card Data VISA; DGI-0202 Unsigned Card Data VISA [SDA]

DGI-0302 Unsigned Card Data VISA DGI-0202 Unsigned Card Data VISA [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0302” “0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	1	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	A)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	

- A) Tamanho variável, com um máximo “15”.
- B) Tamanho variável, com um máximo “17”.

Tabela 139 - DGI-0401 Dynamic Authentication Data MasterCard Paypass

DGI-0401 Dynamic Authentication Data MasterCard Paypass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0401”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”

DGI-0401 Dynamic Authentication Data MasterCard Paypass

	Nome	Dim	Form	Req	Conteúdo
Val	ICC PK Remainder	20	H	O	
Tag	Tag Third Party Data (Device Type)	2	H	M	“9F6E”
Len	Len Third Party Data (Device Type)	1	H	M	“07”
Val	Third Party Data (Device Type)	7	H	M	

Tabela 140 - DGI-0402 Dynamic Authentication Certificate MasterCard Paypass
DGI-0402 Dynamic Authentication Data MasterCard Paypass

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0402”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1 2	H	M	
Tag	Tag ICC PK Certificate	2	H	M	“9F46”
Len	Len ICC PK Certificate	1 2 2	H	M	“70” “8180” “8190”
Val	ICC PK Certificate	var	H	M	

Tabela 141 - DGI-0A01 Proprietary Tag Usage - GERAL; DGI-1501 Proprietary Tag Usage - GERAL
DGI-0A01 Proprietary Tag Usage - GERAL
DGI-1501 Proprietary Tag Usage - GERAL

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A01” “1501”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Contas Associadas	2	H	M	“DF27”
Len	Len Contas Associadas	1	H	M	“08”
Val	Contas Associadas	8	H	M	
Tag	Tag Restrição Operações Cartão	2	H	M	“DF28”
Len	Len Restrição Operações Cartão	1	H	M	“10”
Val	Restrição Operações Cartão	16	H	M	
Tag	Tag Suporte Funcionalidades SEQPAN	2	H	M	“DF47”
Len	Len Suporte Funcionalidades SEQPAN	1	H	M	“01”
Val	Suporte Funcionalidades SEQPAN	1	H	M	
Tag	Tag Identificação Cliente	2	H	M	“DF49”

DGI-0A01 Proprietary Tag Usage - GERAL					
DGI-1501 Proprietary Tag Usage - GERAL					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Identificação Cliente	1	H	M	“0D”
Val	Sexo	1	H	M	
	Data de Nascimento	4	H	M	
	Código de Atividade	4	H	M	
	RFU	4	H	M	“00000000”

Tabela 142 - DGI-0A02 Proprietary Tag Usage - Linha de Crédito; DGI-1502 Proprietary Tag Usage - Linha de Crédito

DGI-0A02 Proprietary Tag Usage - Linha de Crédito					
DGI-1502 Proprietary Tag Usage - Linha de Crédito					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A02” “1502”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Linha de Crédito	2	H	M	“DF44”
Len	Len Funcionalidade Linha de Crédito	1	H	M	“28”
Val	Indicador de Funcionalidade Linha de Crédito	1	H	M	“00” “01”
	Montante Mínimo Aplicável	4	H	M	
	Nº Máximo de Prestações	1	H	M	
	Valor Mínimo para a Prestação	4	H	M	
	Texto a apresentar no Pinpad	30	H	M	

Tabela 143 - DGI-0A03 Proprietary Tag Usage - Fidelização; DGI-1503 Proprietary Tag Usage - Fidelização

DGI-0A03 Proprietary Tag Usage - Fidelização					
DGI-1503 Proprietary Tag Usage - Fidelização					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A03” “1503”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Fidelização	2	H	M	“DF45”
Len	Len Funcionalidade Fidelização	1	H	M	“22”

DGI-0A03 Proprietary Tag Usage - Fidelização					
DGI-1503 Proprietary Tag Usage - Fidelização					
	Nome	Dim	Form	Req	Conteúdo
Val	Indicador de Funcionalidade Fidelização	1	H	M	“00” “01”
	Identificador do Programa de Fidelização	2	H	M	
	Indicador de Rebate de Pontos	1	H	M	“00” “01”
	Texto a apresentar no Pinpad	30	H	M	

Tabela 144 - DGI-0A04 Proprietary Tag Usage - Programa de Emissor; DGI-1504 Proprietary Tag Usage - Programa de Emissor

DGI-0A04 Proprietary Tag Usage - Programa de Emissor					
DGI-1504 Proprietary Tag Usage - Programa de Emissor					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A04” “1504”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Programa de Emissor	2	H	M	“DF46”
Len	Len Funcionalidade Programa de Emissor	1	H	M	“03”
Val	Indicador de Funcionalidade Programa de Emissor	1	H	M	“00” “01”
	Identificador do Programa de Emissor	2	H	M	

Tabela 145 - DGI-0D01 (*Internal*) Card Risk Management Data VSDC

DGI-0D01 (<i>Internal</i>) Card Risk Management Data VSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”

DGI-0D01 (Internal) Card Risk Management Data VSDC

	Nome	Dim	Form	Req	Conteúdo
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	"9F72"
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	"01"
Val	Consecutive Transaction Limit (International-Country)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	"9F54"
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	"06"
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	"9F5C"
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	"06"
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit – Dual Currency	2	H	O	"9F75"
Len	Len Cumulative Total Transaction Amount Limit – Dual Currency	1	H	O	"06"
Val	Cumulative Total Transaction Amount Limit – Dual Currency	6	H	O	
Tag	Tag Currency Conversion Factor	2	H	O	"9F73"
Len	Len Currency Conversion Factor	1	H	O	"04"
Val	Currency Conversion Factor	4	H	O	
Tag	Tag Available Offline Spending Amount	2	H	M	"9F5D"
Len	Len Available Offline Spending Amount	1	H	M	"06"
Val	Available Offline Spending Amount	6	H	M	
Tag	Tag Consecutive Transaction Int Upper Limit	2	H	M	"9F5E"
Len	Len Consecutive Transaction Int Upper Limit	1	H	M	"01"
Val	Consecutive Transaction Int Upper Limit	1	H	M	
Tag	Tag Log Format	2	H	M	"9F4F"
Len	Len Log Format	1	H	M	"0E"
Val	Log Format	14	H	M	"9F27019F02065F2A029A03 9F3602"

Tabela 146 - DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]

DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0D01"
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	"9F58"
Len	Len Lower Consecutive Offline Limit	1	H	M	"01"

DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit – Dual Currency	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit – Dual Currency	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit – Dual Currency	6	H	O	
Tag	Tag Currency Conversion Factor	2	H	O	“9F73”
Len	Len Currency Conversion Factor	1	H	O	“04”
Val	Currency Conversion Factor	4	H	O	

Tabela 147 - DGI-0D01 (Internal) Card Risk Management Data AMEX
DGI-0D01 (Internal) Card Risk Management Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“DF03”
Len	Len Application Default Action	1	H	M	“02”
Val	Application Default Action (ADA)	2	H	M	
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”

DGI-0D01 (Internal) Card Risk Management Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Upper Limit	2	H	M	“9F62”
Len	Len Cumulative Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	

Tabela 148 - DGI-0D01 (Internal) Card Risk Management Data AMEX [SDA]
DGI-0D01 (Internal) Card Risk Management Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”

DGI-0D01 (Internal) Card Risk Management Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	"9F53"
Len	Len Consecutive Transaction Limit (International)	1	H	M	"01"
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	"9F54"
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	"06"
Val	Cumulative Total Transaction Amount Limit	6	H	M	

Tabela 149 - DGI-0D01 (Internal) Card Risk Management Data M/Chip [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0D01"
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	"9F14"
Len	Len Lower Consecutive Offline Limit	1	H	M	"01"
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	"9F23"
Len	Len Upper Consecutive Offline Limit	1	H	M	"01"
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	"CA"
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	"06"
Val	Lower Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	"CB"
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	"06"
Val	Upper Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Currency Conversion Table	2	H	O	"D1"
Len	Len Currency Conversion Table	1	H	O	"05"
Val	Currency Conversion Table	5	H	O	

Tabela 150 - DGI-0E01 (Private) Card Risk Management Data VSDC

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0E01"
Len DGI		1	H		

DGI-0E01 (Private) Card Risk Management Data VSDC

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action (ADA)	4	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	
Tag	Tag Geographic Indicator	2	H	M	“9F55”
Len	Len Geographic Indicator	1	H	M	“01”
Val	Geographic Indicator	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Secondary Application Currency Code	2	H	O	“9F76”
Len	Len Secondary Application Currency Code	1	H	O	“02”
Val	Secondary Application Currency Code	2	H	O	
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

Tabela 151 - DGI-0E01 (Private) Card Risk Management Data AMEX [SDA]
DGI-0E01 (Private) Card Risk Management Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“02”
Val	Application Default Action (ADA)	2	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

Tabela 152 - DGI-0E01 (Private) Card Risk Management Data M/CHIP [SDA]

DGI-0E01 (Private) Card Risk Management Data M/CHIP [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”
Val	CRM Currency Code	2	H	M	
Tag	Tag Card Issuer Action Code – Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code – Decline	1	H	M	“03”
Val	Card Issuer Action Code – Decline	3	H	M	
Tag	Tag Card Issuer Action Code – Default	1	H	M	“C4”
Len	Len Card Issuer Action Code – Default	1	H	M	“03”
Val	Card Issuer Action Code – Default	3	H	M	
Tag	Tag Card Issuer Action Code – Online	1	H	M	“C5”
Len	Len Card Issuer Action Code – Online	1	H	M	“03”
Val	Card Issuer Action Code – Online	3	H	M	

Tabela 153 - DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Track2EquivalentData (PayWave)	1	H	M	“57”
Len	Len Track2EquivalentData (PayWave)	1	H	M	“13”
Val	Track2EquivalentData (PayWave)	19	H	M	
Tag	Tag Cardholder Name (PayWave)	2	H	M	“5F20”
Len	Len Cardholder Name (PayWave)	1	H	M	“1A”
Val	Cardholder Name (PayWave)	26	H	M	
Tag	Tag Application Pan Sequence Number (PayWave)	2	H	M	“5F34”
Len	Len Application Pan Sequence Number (PayWave)	1	H	M	“01”
Val	Application Pan Sequence Number (PayWave)	1	H	M	
Tag	Tag Track1DiscretionaryData (PayWave)	2	H	M	“9F1F”

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Track1DiscretionaryData (PayWave)	1	H	M	“17” “18” “1A”
Val	Track1DiscretionaryData (PayWave)	23 24 26	H	M	
Tag	Tag Transaction Log Format (PayWave)	2	H	M	“9F4F”
Len	Len Transaction Log Format (PayWave)	1	H	M	“0E”
Val	Transaction Log Format (PayWave)	14	H	M	“9F27019F02065F2A029A039F3602”
Tag	Tag Application Currency Code (PayWave)	2	H	M	“9F51”
Len	Len Application Currency Code (PayWave)	1	H	M	“02”
Val	Application Currency Code (PayWave)	2	H	M	
Tag	Tag Application Default Action (PayWave)	2	H	M	“9F52”
Len	Len Application Default Action (PayWave)	1	H	M	“04”
Val	Application Default Action (PayWave)	4	H	M	
Tag	Tag Consecutive Transaction Limit – International (CTLI) (PayWave)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit – International (CTLI) (PayWave)	1	H	M	“01”
Val	Consecutive Transaction Limit – International (CTLI) (PayWave)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	6	H	M	
Tag	Tag Geographic Indicator (PayWave)	2	H	M	“9F55”
Len	Len Geographic Indicator (PayWave)	1	H	M	“01”
Val	Geographic Indicator (PayWave)	1	H	M	
Tag	Tag Issuer Authentication Indicator (PayWave)	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator (PayWave)	1	H	M	“01”
Val	Issuer Authentication Indicator (PayWave)	1	H	M	
Tag	Tag Issuer Country Code (PayWave)	2	H	M	“9F57”
Len	Len Issuer Country Code (PayWave)	1	H	M	“02”
Val	Issuer Country Code (PayWave)	2	H	M	
Tag	Tag Lower Consecutive Offline Limit (PayWave)	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit (PayWave)	1	H	M	“01”
Val	Lower Consecutive Offline Limit (PayWave)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit (PayWave)	2	H	M	“9F59”

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Upper Consecutive Offline Limit (PayWave)	1	H	M	“01”
Val	Upper Consecutive Offline Limit (PayWave)	1	H	M	
Tag	Tag (PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	2	H	M	“9F5C”
Len	Len (PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	1	H	M	“06”
Val	(PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	6	H	M	
Tag	Tag Available Offline Spending Amount (AOSA) (PayWave)	2	H	O	“9F5D”
Len	Len Available Offline Spending Amount (AOSA) (PayWave)	1	H	O	“06”
Val	Available Offline Spending Amount (AOSA) (PayWave)	6	H	O	
Tag	Tag Consecutive Transaction International Upper Limit (PayWave)	2	H	M	“9F5E”
Len	Len Consecutive Transaction International Upper Limit (PayWave)	1	H	M	“01”
Val	Consecutive Transaction International Upper Limit (PayWave)	1	H	M	
Tag	Tag Offline Counter Initial Value (PayWave)	2	H	M	“9F63”
Len	Len Offline Counter Initial Value (PayWave)	1	H	M	A)
Val	Offline Counter Initial Value (PayWave)	var	H	M	
Tag	Tag MSD Offset (PayWave-qVSDC)	2	H	M	“9F67”
Len	Len MSD Offset (PayWave-qVSDC)	1	H	M	“01”
Val	MSD Offset (PayWave-qVSDC)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International Country) (PayWave)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International Country) (PayWave)	1	H	M	“01”
Val	Consecutive Transaction Limit (International Country) (PayWave)	1	H	M	
Tag	Tag Currency Conversion Factor (PayWave)	2	H	O	“9F73”
Len	Len Currency Conversion Factor (PayWave)	1	H	O	“04”
Val	Currency Conversion Factor (PayWave)	4	H	O	
Tag	Tag Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	6	H	O	
Tag	Tag Secondary Application Currency Code (PayWave)	2	H	O	“9F76”

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1

	Nome	Dim	Form	Req	Conteúdo
Len	Len Secondary Application Currency Code (PayWave)	1	H	O	“02”
Val	Secondary Application Currency Code (PayWave)	2	H	O	

A) Tamanho variável, entre “0” e “01”.

Tabela 154 - DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 2
DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 2

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Card Additional Processes (PayWave-qVSDC)	2	H	M	“9F68”
Len	Len Card Additional Processes (PayWave-qVSDC)	1	H	M	“04”
Val	Card Additional Processes (PayWave-qVSDC)	4	H	M	A)
Tag	Tag Card Transaction Qualifiers (PayWave-qVSDC)	2	H	M	“9F6C”
Len	Len Card Transaction Qualifiers (PayWave-qVSDC)	1	H	M	“02”
Val	Card Transaction Qualifiers (PayWave-qVSDC)	2	H	M	
Tag	Tag VLP Reset Threshold (PayWave-qVSDC)	2	H	M	“9F6D”
Len	Len VLP Reset Threshold (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Reset Threshold (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Funds Limit (PayWave-qVSDC)	2	H	M	“9F77”
Len	Len VLP Funds Limit (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Funds Limit (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Single Transaction Limit (PayWave-qVSDC)	2	H	M	“9F78”
Len	Len VLP Single Transaction Limit (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Single Transaction Limit (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Available Funds (PayWave-qVSDC)	2	H	M	“9F79”
Len	Len VLP Available Funds (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Available Funds (PayWave-qVSDC)	6	H	M	

A) Valores possíveis:

- ‘4E00C000’ - Contactless alto valor;
- ‘4E000000’ - Contactless baixo valor;

Tabela 155 - DGI-2000 ICC Public Key
DGI-2000 ICC Public Key

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“2000”

DGI-2000 ICC Public Key

	Nome	Dim	Form	Req	Conteúdo
Len DGI		1	H		
Val	ICC Public Key Modulus		H	M	
Val	ICC Public Key Remainder		H	M	

Tabela 156 - DGI-300C (*Internal*) Card Risk Management Data DPA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300C”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	“FF”
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	“FF”
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	“FF”
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	“FF”
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	“999999999999”
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	“999999999999”

Tabela 157 - DGI-300D (*Internal*) Card Risk Management Data CAP

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300D”
Len DGI		1	H		

DGI-300D (Internal) Card Risk Management Data CAP

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	“FF”
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	“FF”
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	“999999999999”
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	“999999999999”
Tag	Tag Currency Conversion Table	2	H	O	“D1”
Len	Len Currency Conversion Table	1	H	O	“05”
Val	Currency Conversion Table	5	H	O	“99 99 00 00 00 99 99 00 00 00 99 99 00 00 00 99 99 00 00 00 99 99 00 00 00”

Tabela 158 - DGI-300E (Private) Card Risk Management Data DPA
DGI-300E (Private) Card Risk Management Data DPA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300E”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action (ADA)	4	H	M	“00000000”
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“9999”
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	“0620”

Tabela 159 - DGI-300F (Private) Card Risk Management Data CAP

DGI-300F (Private) Card Risk Management Data CAP					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300F”
Len DGI		1	H		
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	“0620”
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”
Val	CRM Currency Code	2	H	M	“9999”
Tag	Tag Card Issuer Action Code - Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code - Decline	1	H	M	“03”
Val	Card Issuer Action Code - Decline	3	H	M	“390000”
Tag	Tag Card Issuer Action Code - Default	1	H	M	“C4”
Len	Len Card Issuer Action Code - Default	1	H	M	“03”
Val	Card Issuer Action Code - Default	3	H	M	“000000”
Tag	Tag Card Issuer Action Code - Online	1	H	M	“C5”
Len	Len Card Issuer Action Code - Online	1	H	M	“03”
Val	Card Issuer Action Code - Online	3	H	M	“000000”

Tabela 160 - DGI-3212 Card Data CAP/DPA

DGI-3212 Card Data CAP/DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3212”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	igual à aplic. pag.
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	igual à aplic. pag.
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”

DGI-3212 Card Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	“0100”
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	igual à aplic. pag.
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	DPA - “15” CAP - “1E”
Val	CDOL1	21 30	H	M	igual à aplic. pag.
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	DPA - “17” CAP - “06”
Val	CDOL2	23 6	H	M	igual à aplic. pag.
Tag	Tag IAF	2	H	M	“9F55”
Len	Len IAF	1	H	M	“01”
Val	IAF	1	H	M	“00”
Tag	Tag IPB	2	H	M	“9F56”
Len	Len IPB	1	H	M	B)
Val	IPB	var	H	M	

- A) Tamanho variável entre “0” e “60”.
- B) Tamanho variável com máximo de “1D”.

Tabela 161 - DGI-8000 DES UDK keys

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8000”
Len DGI		1	H		
Val	Unique DEA Key A (UDK A)	8	H	M	
Val	Unique DEA Key B (UDK B)	8	H	M	
Val	Message Authentication Code DEA Key A (UDK MAC A)	8	H	M	
Val	Message Authentication Code DEA Key B (UDK MAC B)	8	H	M	

DGI-8000 DES UDK keys

	Nome	Dim	Form	Req	Conteúdo
Val	Data Encipherment DEA Key A (UDK ENC A)	8	H	M	
Val	Data Encipherment DEA Key B (UDK ENC B)	8	H	M	

Tabela 162 - DGI-8001 Alternate DES UDK Key for MSD

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"8001"
Len DGI		1	H		
Val	Unique DEA Key A for MSD (UDK A MSD) Used in the dCVV calculation	8	H	M	
Val	Unique DEA Key B for MSD (UDK B MSD) Used in the dCVV calculation	8	H	M	

Tabela 163 - DGI-8010 Offline PIN

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"8010"
Len DGI		1	H		
Val	Reference PIN	8	H	M	

NOTA: Assume-se que esta DGI está sempre presente, mas o PIN Offline só será escrito no chip, se houver entre as várias aplicações, pelo menos uma CVM List que contenha o CVM Offline PIN. Caso contrário não será escrito.

Tabela 164 - DGI-8101 ICC Private Key (DDA / ICC PIN Encipherment) Exponent

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"8101"
Len DGI		1	H		
Val	ICC Private Key (DDA / ICC PIN Encipherment) Exponent	var	H	M	A)

- A) Pode ser preenchido com zeros.

Tabela 165 - DGI-8102 ICC Private Key (ICC PIN Encipherment) Exponent

DGI-8102 ICC Private Key (ICC PIN Encipherment) Exponent					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8102”
Len DGI		1	H		
Val	ICC Private Key (ICC PIN Encipherment) Exponent		H	M	

Tabela 166 - DGI-8103 ICC Private Key (DDA / ICC PIN Encipherment) Modulus

DGI-8103 ICC Private Key (DDA / ICC PIN Encipherment) MODULUS					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8103”
Len DGI		1	H		
Val	ICC Private Key (DDA / ICC PIN Encipherment) Modulus	var	H	M	A)

A) Pode ser preenchido com zeros.

Tabela 167 - DGI-8104 ICC Private Key (ICC PIN Encipherment) Modulus

DGI-8104 ICC Private Key (ICC PIN Encipherment) Modulus					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8104”
Len DGI		1	H		
Val	ICC Private Key (ICC PIN Encipherment) Modulus		H	M	

Tabela 168 - DGI-8201 ICC Private key crt constant Q-1 mod p

DGI-8201 ICC Private key crt constant Q-1 mod p					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8201”
Len DGI		1	H		
Val	ICC Private Key CRT constant q-1 mod p		H	M	

Tabela 169 - DGI-8202 ICC Private key crt constant D mod (Q-1)

DGI-8202 ICC Private key crt constant D mod (Q-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8202”
Len DGI		1	H		

DGI-8202 ICC Private key crt constant D mod (Q-1)

	Nome	Dim	Form	Req	Conteúdo
Val	ICC Private Key CRT constant d mod (q-1)		H	M	

 Tabela 170 - DGI-8203 ICC *Private key crt constant D mod (p-1)*
DGI-8203 ICC Private key crt constant D mod (p-1)

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8203”
Len DGI		1	H		
Val	ICC Private Key CRT constant d mod (p-1)		H	M	

 Tabela 171 - DGI-8204 ICC *Private key crt constant Prime Factor Q*
DGI-8204 ICC PRIVATE key crt constant PRIME FACTOR Q

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8204”
Len DGI		1	H		
Val	ICC Private Key CRT constant prime factor q		H	M	

 Tabela 172 - DGI-8205 ICC *Private key crt constant Prime Factor P*
DGI-8205 ICC Private key crt constant Prime Factor P

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8205”
Len DGI		1	H		
Val	ICC Private Key CRT constant prime factor p		H	M	

 Tabela 173 - DGI-8301 ICC PIN *Encipherment Private key crt constant Q-1 mod p*
DGI-8301 ICC PIN Encipherment Private key crt constant Q-1 mod p

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8301”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant q-1 mod p		H	M	

Tabela 174 - DGI-8302 ICC PIN Encipherment Private key crt constant D mod (Q-1)

DGI-8302 ICC PIN ENCIPHERMENT PRIVATE key crt constant D mod (Q-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8302”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant d mod (q-1)		H	M	

Tabela 175 - DGI-8303 ICC PIN Encipherment Private key crt constant D mod (p-1)

DGI-8303 ICC PIN Encipherment Private key crt constant D mod (p-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8303”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant d mod (p-1)		H	M	

Tabela 176 - DGI-8304 ICC PIN Encipherment Private key crt constant Prime Factor Q

DGI-8304 ICC PIN ENCIPHERMENT PRIVATE key crt constant PRIME FACTOR Q					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8304”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant prime factor q		H	M	

Tabela 177 - DGI-8305 ICC PIN Encipherment Private key crt constant Prime Factor P

DGI-8305 ICC PIN ENCIPHERMENT PRIVATE key crt constant PRIME FACTOR P					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8305”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant prime factor p		H	M	

Tabela 178 - DGI-8400 DES CVC3 Keys

DGI-8400 DES CVC3 Keys					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8400”
Len DGI		1	H		

DGI-8400 DES CVC3 Keys

	Nome	Dim	Form	Req	Conteúdo
Val	CVC3 Generation Key A (KD_CVC3 A)	8	H	M	
Val	CVC3 Generation Key B (KD_CVC3 B)	8	H	M	

Tabela 179 - DGI-9000 DES Key Check Values

DGI-9000 DES Key Check Values					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9000”
Len DGI		1	H		
Val	Key Check Value for UDK Keys	3	H	M	
Val	Key Check Value for UDK MAC Keys	3	H	M	
Val	Key Check Value for UDK ENC Keys	3	H	M	

Tabela 180 - DGI-9001 DES Key Check Values CVC3

DGI-9001 DES Key Check Values CVC3					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9001”
Len DGI		1	H		
Val	Key Check Value for CVC3 Key	3	H	M	

Tabela 181 - DGI-9010 Offline PIN Data

DGI-9010 Offline PIN Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9010”
Len DGI		1	H		
Tag	Tag PIN Try Counter	2	H	M	“9F17”
Len	Len PIN Try Counter	1	H	M	“02”
Val	PIN Try Counter	1	H	M	
Val	PIN Try Limit	1	H	M	“03”

NOTA: Assume-se que esta DGI está sempre presente, mas o PIN Offline só é escrito no chip, se houver entre as várias aplicações, pelo menos uma CVM List que contenha o CVM Offline PIN. Caso contrário não é escrito.

Tabela 182 - DGI-9102 Select Response Data VSDC

DGI-9102 Select Response Data VSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	O	“9F38”
Len	Len PDOL	1	H	O	A)
Val	PDOL	var	H	O	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”

- A) Tamanho variável, com um máximo “0E”.

Tabela 183 - DGI-9102 Select Response Data VSDC [SDA]

DGI-9102 Select Response Data VSDC [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag	DGI	2	H		“9102”
Len	DGI	1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	B)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	O	“9F38”
Len	Len PDOL	1	H	O	A)
Val	PDOL	var	H	O	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	

DGI-9102 Select Response Data VSDC [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

- A) Tamanho variável, com um máximo “0E”;
 B) Tamanho variável entre “05” e “10”.

Tabela 184 - DGI-9102 Select Response Data M/Chip
DGI-9102 Select Response Data M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”

DGI-9102 Select Response Data M/Chip

	Nome	Dim	Form	Req	Conteúdo
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	“0620”
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

A) Tamanho variável entre “05” e “10”.

Tabela 185 - DGI-9102 Select Response Data M/Chip [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”

DGI-9102 Select Response Data M/Chip [SDA]

	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	“0620”
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

A) Tamanho variável entre “05” e “10”.

Tabela 186 - DGI-9102 Select Response Data CAP/DPA
DGI-9102 Select Response Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H	M	“9102”
Len DGI		1	H	M	
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	DPA: “56495341204155542020202020202020” (VISA AUT) CAP: “4D415354455243415244204155542020” (MASTERCARD AUT)
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“04”
Val	Language Preference	4	H	M	”7074656E” (pten)
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”

DGI-9102 Select Response Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Code Table Index	1	H	M	"01"

A) Tamanho variável entre "05" e "10".

Tabela 187 - DGI-9102 Select Response Data AMEX
DGI-9102 Select Response Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"9102"
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	"A5"
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	"50"
Len	Len Application Label	1	H	M	"10"
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	"87"
Len	Len Application Priority Indicator	1	H	M	"01"
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	"5F2D"
Len	Len Language Preference	1	H	M	"02" "04"
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	"9F11"
Len	Len Issuer Code Table Index	1	H	M	"01"
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	"9F12"
Len	Len Application Preferred Name	1	H	M	"10"
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	"BF0C"
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	"DF48"
Len	Len Proprietary Issuer Country Code	1	H	M	"02"
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	"DF40"
Len	Len Client Fee Inhibition	1	H	M	"01"
Val	Client Fee Inhibition	1	H	M	

Tabela 188 - DGI-9102 Select Response Data AMEX [SDA]

DGI-9102 Select Response Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	

- A) Tamanho variável entre “05” e “10”.

Tabela 189 - DGI-9103 Select Response Data VISA Paywave

DGI-9103 Select Response Data VISA Paywave.					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9103”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	B)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	M	“9F38”
Len	Len PDOL	1	H	M	A)
Val	PDOL	var	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	

DGI-9103 Select Response Data VISA Paywave.

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”

- A) Tamanho variável, com um máximo “0E”.
 B) Tamanho variável entre “05” e “10”.

Tabela 190 - DGI-9104 Get Processing Options Response Data

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	Contact-Only MasterCard/Maestro DDA: 08010200 10010201 18010200 A8010400 Paypass MasterCard/Maestro DDA-DDA: 08020300 10020301 18030400 A8010400 Paywave VISA/Electron DDA-DDA 08020300 10010200 18010201 50010400

- A) Tamanho variável, com um máximo de “20”.

Tabela 191 - DGI-9104 Get Processing Options Response Data CAP/DPA

DGI-9104 Get Processing Options Response Data CAP/DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	“1000”
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	

A) Tamanho variável entre “0” e “20”.

Tabela 192 - DGI-9104 Get Processing Options Response Data AMEX

DGI-9104 Get Processing Options Response Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	“5C00” “3C00” DDA
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	AMEX: “0801020008030301” (MB-AMEX): “080102000803030150010100” AMEX DDA: “080102000803030108040500” (MB-AMEX) DDA: “08010200080303010804050050010100”

A) Tamanho variável entre “0” e “20”.

Tabela 193 - DGI-9200 Generate AC Response Data VISA

DGI-9200 Generate AC Response Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”

DGI-9200 Generate AC Response Data VISA

	Nome	Dim	Form	Req	Conteúdo
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“07”
Val	IAD Len Indicator	1	H	M	“06”
	Derivation Key Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	
	CVR Len Indicator	1	H	M	“03”
	Card Verification Results (CVR)	3	H	M	“000000”

Tabela 194 - DGI-9200 Generate AC Response Data MasterCard
DGI-9200 GENERATE AC Response Data MASTERCARD

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“02”
Val	Key Derivation Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	

Tabela 195 - DGI-9200 Generate AC Response Data AMEX
DGI-9200 GENERATE AC Response Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“06”
Val	Derivation Key Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	
	CVR Len Indicator	1	H	M	“03”
	Card Verification Results (CVR)	3	H	M	“000000”

Tabela 196 - DGI-9206 Get Processing Options VISA PayWave MSD

DGI-9206 Get Processing Options VISA PayWave MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9206”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayWave -MSD)	1	H	M	“82”
Len	Len Application Interchange Profile (PayWave-MSD)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayWave-MSD)	2	H	M	“0080”
Tag	Tag Application File Locator (PayWave-MSD)	1	H	M	“94”
Len	Len Application File Locator (PayWave-MSD)	1	H	M	A)
Val	Application File Locator (AFL) (PayWave-MSD)	var	H	M	“08010100”

A) Tamanho variável entre “0” e “20”.

Tabela 197 - DGI-9207 Get Processing Options VISA PayWave QVSDC

DGI-9207 Get Processing Options VISA PayWave QVSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9207”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayWave-qVSDC)	1	H	M	“82”
Len	Len Application Interchange Profile (PayWave-qVSDC)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayWave-qVSDC)	2	H	M	“2000”
Tag	Tag Application File Locator (PayWave-qVSDC)	1	H	M	“94”
Len	Len Application File Locator (PayWave-qVSDC)	1	H	M	A)
Val	Application File Locator (AFL) (PayWave-qVSDC)	var	H	M	
Tag	Tag Issuer Application Data (PayWave-qVSDC)	2	H	M	“9F10”
Len	Len Issuer Application Data (PayWave-qVSDC)	1	H	M	“07”
Val	Issuer Application Data (AFL) (PayWave-qVSDC)	7	H	M	“06011103000000”

A) Tamanho variável entre “0” e “20”.

Tabela 198 - DGI-A001 Alternate Select Response M/Chip

DGI-A001 Alternate Select Response M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A001”
Len DGI		1	H		

DGI-A001 Alternate Select Response M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	“0620”
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Client Log Entry	2	H	M	“0B0A”

A) Tamanho variável entre “05” e “10”.

Tabela 199 - DGI-A002 Persistent Data Elements M/Chip

DGI-A002 Persistent Data Elements M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A002”
Len DGI		1	H		
Tag	Tag Application Control	1	H	M	“D5”
Len	Len Application Control	1	H	M	“02”
Val	Application Control	2	H	M	“0000”-MasterCard sem Pin “0800”-MasterCard com Pin “0800”-Maestro (com Pin)
Tag	Tag Default ARPC Response Code	1	H	M	“D6”
Len	Len Default ARPC Response Code	1	H	M	“02”
Val	Default ARPC Response Code	2	H	M	“0010” para Maestro e “0012” para MasterCard
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Card Issuer Action Code – Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code – Decline	1	H	M	“03”
Val	Card Issuer Action Code – Decline	3	H	M	
Tag	Tag Card Issuer Action Code – Default	1	H	M	“C4”
Len	Len Card Issuer Action Code – Default	1	H	M	“03”
Val	Card Issuer Action Code – Default	3	H	M	
Tag	Tag Card Issuer Action Code – Online	1	H	M	“C5”
Len	Len Card Issuer Action Code – Online	1	H	M	“03”
Val	Card Issuer Action Code – Online	3	H	M	
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”

DGI-A002 Persistent Data Elements M/Chip

	Nome	Dim	Form	Req	Conteúdo
Val	CRM Currency Code	2	H	M	“0978”
Tag	Tag Currency Conversion Table	2	H	M	“D1”
Len	Len Currency Conversion Table	1	H	M	“19”
Val	Currency Conversion Table	25	H	M	(5 entradas, devem vir todas preenchidas, mesmo com valores <i>dummy</i>)
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	
Tag	Tag CDOL1 Related Data Length	1	H	M	“C7”
Len	Len CDOL1 Related Data Length	1	H	M	“01”
Val	CDOL1 Related Data Length	1	H	M	“2B”-MChipSelect-DDA
Tag	Tag Additional Check Table	1	H	M	“D3”
Len	Len Additional Check Table	1	H	M	“12”
Val	Additional Check Table	18	H	M	“000000000 00000000”

Tabela 200 - DGI-A003 CFDC Key Limits M/Chip
DGI-A003 CFDC Key Limits M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A003”
Len DGI		1	H		
Val	CFDC Limit SMI	1	H	M	“03”
Val	CFDC Limit SMC	1	H	M	“03”
Val	CFDC Limit AC	1	H	M	“03”

Tabela 201 - DGI-A005 Alternate Get Processing Options M/chip
DGI-A005 ALTERNATE GET PROCESSING OPTIONS MCHIP

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A005”
Len DGI		1	H		
Val	Application Interchange Profile (AIP)	2	H	M	
Val	Application File Locator (AFL)		H	M	

Tabela 202 - DGI-A006 ICC Dynamic Number Master Key M/Chip

DGI-A006 ICC Dynamic Number Master Key M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A006”
Len DGI		1	H		
Val	ICC Dynamic Number Master Key A	8	H	M	
Val	ICC Dynamic Number Key B	8	H	M	

Tabela 203 - DGI-A007 Persistent Data Elements M/Chip - 1

DGI-A007 Persistent Data Elements M/Chip - 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A007”
Len DGI		1	H		
Val	Application Transaction Counter Limit	2	H	M	“FFFF”
Val	Previous Transaction History	1	H	M	“00”-ContactOnly “08”-Contactless- ContactMode
Val	MAC in Script Counter Limit	1	H	M	“0F”
Val	Global MAC in Script Counter Limit	3	H	M	“FFFFFF”
Val	Key Derivation Index	1	H	M	

Tabela 204 - DGI-A007 Persistent Data Elements M/Chip - 2

DGI-A007 PERSISTENT DATA ELEMENTS M/CHIP - 2					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A007”
Len DGI		1	H		
Val	Application Transaction Counter Limit	2	H	M	“FFFF”
Val	Previous Transaction History	1	H	M	“00” - ContactOnly “08” - Contactless - ContactMode
Val	AC Session Key Counter Limit	2	H	M	“FFFF”
Val	SMI Session Key Counter Limit	2	H	M	“FFFF”
Val	Key Derivation Index	1	H	M	

Tabela 205 - DGI-A008 Bad Cryptogram Counter Limit M/Chip

DGI-A008 Bad Cryptogram Counter Limit M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A008”
Len DGI		1	H		

DGI-A008 Bad Cryptogram Counter Limit M/Chip

	Nome	Dim	Form	Req	Conteúdo
Val	Bad Cryptogram Counter Limit	2	H	M	“0400”

Tabela 206 - DGI-B002 (Private) Card Risk Management Data MasterCard PayPass

DGI-B002 (Private) Card Risk Management Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B002”
Len DGI		1	H		
Tag	Tag Application Control PayPass	1	H	M	“D7”
Len	Len Application Control PayPass	1	H	M	“03”
Val	Application Control PayPass	3	H	M	“000040”-PayPass MasterCard DDA-DDA “000080”- PayPass Maestro DDA-DDA
Tag	Tag IVCVC3_TRACK1	1	H	M	“DC”
Len	Len IVCVC3_TRACK1	1	H	M	“02”
Val	Card IVCVC3_TRACK1	2	H	M	
Tag	Tag IVCVC3_TRACK2	1	H	M	“DD”
Len	Len IVCVC3_TRACK2	1	H	M	“02”
Val	Card IVCVC3_TRACK2	2	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Decline	1	H	M	“CF”
Len	Len Card Issuer Action Code (PayPass) – Decline	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Decline	3	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Default	1	H	M	“CD”
Len	Len Card Issuer Action Code (PayPass) – Default	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Default	3	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Online	1	H	M	“CE”
Len	Len Card Issuer Action Code (PayPass) – Online	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Online	3	H	M	

Tabela 207 - DGI-B005 Get Processing Options MasterCard PayPass

DGI-B005 Get Processing Options MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B005”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayPass)	1	H	M	“D8”
Len	Len Application Interchange Profile (PayPass)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayPass)	2	H	M	“5880”

DGI-B005 Get Processing Options MasterCard PayPass

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application File Locator (<i>PayPass</i>)	1	H	M	“D9”
Len	Len Application File Locator (<i>PayPass</i>)	1	H	M	“10”
Val	Application File Locator (AFL) (<i>PayPass</i>)	16	H	M	“08010100 10010101 18010200 20010200”

3.2.5.5.5 DGI a utilizar para a versão 3 do ficheiro PERS

Tabela 208 - Tabela de Combinação de DGI - PERS v3

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1	DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (MChip Advance)	PPSE (MChip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0101	PSE – First Record Data																																	
DGI-0102	PSE – Second Record Data																																	
DGI-01nn	PSE – Subsequent Record Data																																	
DGI-0101	Track Data VISA	KS CIF	✓	✓	✓					✓	✓	✓																						
DGI-0101	Track Data MasterCard [SDA]	KS CIF																✓																
DGI-0101	Track Data MasterCard	KS CIF																✓	✓															
DGI-0101	Track Data VISA PayWave MSD	KS CIF						✓																										
DGI-0101	Track Data MasterCard PayPass MagStripe	KS CIF																	✓	✓														

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0101	Track Data and Authentication & Unsigned Data AMEX	KS CIF																													
DGI-0101	Track Data and Authentication Data AMEX [SDA]	KS CIF																													
DGI-0102	Track Data VISA	KS CIF		√		√																									
DGI-0102	Track Data MasterCard	KS CIF																	√	√											
DGI-0102	Cardholdername		√	√							√	√					√									√					
DGI-0102	Cardholdername CIF	KS CIF			√							√					√									√					
DGI-0102	Cardholdername AMEX																									√	√				
DGI-0102	Unsigned Card Data AMEX [SDA]																									√	√				
DGI-0103	Signed Card Data AMEX	KS CIF																									√	√			
DGI-0103	Signed Card Data AMEX [SDA]	KS CIF																									√	√			
DGI-0103	Cardholdername					√											√				√						√	√			
DGI-0103	Cardholdername CIF	KS CIF							√											√											

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 2.1.2) (Contact-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0104	ISS PK Certificate																													
DGI-0105	ICC PK Certificate																													
DGI-0201	Dynamic Authentication Data		√	√					√								√	√												
DGI-0201	Signed Card Data VISA [SDA]	KS CIF	√						√																					
DGI-0201	Signed Card Data MasterCard	KS CIF																												
DGI-0201	Signed Card Data MasterCard PayPass	KS CIF																												
DGI-0201	Dynamic Authentication Data (without ICC PK Cert)			√			√			√		√								√	√									
DGI-0202	Static Authentication Data			√	√	√				√																				
DGI-0202	Unsigned Card Data VISA [SDA]		√						√																					
DGI-0202	Signed Card Data MasterCard	KS CIF																√		√										
DGI-0202	Signed Card Data MasterCard MChip Advance	KS CIF																	√											

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0202	Unsigned Card Data MasterCard																													
DGI-0202	Unsigned Card Data MasterCard [SDA]																													
DGI-0202	Static Authentication Data (<i>without Issuer PK Cert</i>)			✓		✓		✓		✓		✓		✓		✓		✓												
DGI-0203	Static Authentication Data - 1 [SDA]		✓																							✓				
DGI-0203	Static Authentication Data - 2 [SDA]																													
DGI-0203	Unsigned Card Data MasterCard																													
DGI-0203	Dynamic Authentication Data VISA PayWave	KS CIF			✓																									
DGI-0203	Issuer PK Certificate							✓		✓		✓		✓																
DGI-0204	Signed Static Application Data [SDA]		✓																											

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0204	ICC PK Certificate Paywave							√																							
DGI-0204	ICC PK Certificate			√							√																				
DGI-0205	Dynamic Authentication Data Visa PayWave (Without ICC PK Cert)	KS CIF						√							√																
DGI-0206	ICC PK Certificate				√			√																							
DGI-0301	Static Authentication Data															√				√	√	√									
DGI-0301	Signed Card Data VISA	KS CIF	√	√	√			√			√	√																			
DGI-0302	Dynamic Authentication Data																√									√					
DGI-0302	Signed Static Application Data																				√	√									
DGI-0302	Unsigned Card Data VISA				√	√	√		√			√	√																		
DGI-0303	Static Authentication Data																	√													
DGI-0303	ICC PK Cert																√		√							√					
DGI-0304	Dynamic Authentication Data																	√													

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 2.1.2) (Contact-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0304	Static Authentication Data (Without Issuer PK Cert)																												
DGI-0305	Dynamic Authentication Data (Without ICC PK Cert)																												
DGI-0306	Issuer PK Cert																												
DGI-0401	Dynamic Authentication Data MasterCard PayPass																												
DGI-0402	Dynamic Authentication Certificate MasterCard PayPass																												
DGI-0A01	Proprietary Tag Usage – GERAL		✓	✓	✓	✓		✓		✓	✓	✓													✓	✓			
DGI-0A02	Proprietary Tag Usage – Linha de Crédito		✓	✓	✓	✓		✓		✓	✓	✓													✓	✓			
DGI-0A03	Proprietary Tag Usage – Fidelização		✓	✓	✓	✓		✓		✓	✓	✓													✓	✓			
DGI-0A04	Proprietary Tag Usage – Programa de Emissor		✓	✓	✓	✓		✓		✓	✓	✓													✓	✓			

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0D01	(Internal) Card Risk Management Data VSDC		√																												
DGI-0D01	(Internal) Card Risk Management Data VSDC [SDA]		√																												
DGI-0D01	(Internal) Card Risk Management Data AMEX																								√	√					
DGI-0D01	(Internal) Card Risk Management Data AMEX [SDA]																								√	√					
DGI-0D01	(Internal) Card Risk Management Data M/Chip [SDA]																														
DGI-0E01	(Private) Card Risk Management Data VSDC		√	√																											
DGI-0E01	(Private) Card Risk Management Data AMEX [SDA]																								√	√					
DGI-0E01	(Private) Card Risk Management Data M/Chip [SDA]																														

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-0E01	Card Private Data VISA PayWave – Part 1	KS CIF				√	√									√	√	√	√	√											
DGI-0E01	Card Private Data VISA PayWave – Part 2	KS CIF				√	√																								
DGI-1501	Proprietary Tag Usage – GERAL																√	√	√	√	√										
DGI-1502	Proprietary Tag Usage – Linha de Crédito																√	√	√	√	√										
DGI-1503	Proprietary Tag Usage – Fidelização																√	√	√	√	√										
DGI-1504	Proprietary Tag Usage – Programa de Emissor																√	√	√	√	√										
DGI-2000	ICC PUBLIC KEY					√	√	√	√	√	√	√					√		√		√		√								
DGI-3000	Common Internal Data (Contact)																	√													
DGI-3000	Common Internal Data (Contactless)																√	√													

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-3001	Application Internal Data (Contact)																														
DGI-3001	Application Internal Data (Contact without Offline Limits)			✓																											
DGI-3001	Application Internal Data (Contactless)	KS CIF					✓	✓																							
DGI-3001	Application Internal Data (Contactless VISA Microtags)	KS CIF													✓																
DGI-300C	(Internal) Card Risk Management Data DPA															✓															
DGI-300D	(Internal) Card Risk Management Data CAP																									✓					
DGI-300E	(Private) Card Risk Management Data DPA															✓															
DGI-300F	(Private) Card Risk Management Data CAP																✓									✓					
DGI-3212	Card Data CAP/DPA	KS CIF															✓									✓					

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 2.1.2) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 1.5.4) (Contact-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-3F55	Contactless Counters Template - qVSDC							√																							
DGI-3F56	Counters Data Template – VIS			√				√																							
DGI-3F57	International Counters Data Template – VIS, qVSDC			√				√	√																						
DGI-3F58	Amounts Data Template – VIS, qVSDC			√				√	√																						
DGI-3F5B	Application Internal Data Template – VIS, qVSDC, MSD			√				√	√																						
DGI-8000	DES UDK Keys	KS KEY	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√						
DGI-8001	Alternate DES UDK Key for MSD	KS KEY						√																							
DGI-8001	DES UDK Keys Contactless																														
DGI-8010	Offline PIN	KS PIN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√						
DGI-8101	ICC Private Key (DDA / ICC PIN Encipherment) Exponent	KS KEY	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√						

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 2.1.2) (Contact-Mode) (DDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-8102	ICC Private Key (ICC PIN Encipherment) Exponent	KS KEY																											
DGI-8103	ICC Private Key (DDA / ICC PIN Encipherment) Modulus	KS KEY	✓	✓	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
DGI-8104	ICC Private Key (ICC PIN Encipherment) Modulus	KS KEY																											
DGI-8201	ICC Private Key CRT Constant q^{-1} mod p	KS KEY	✓	✓	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
DGI-8202	ICC Private Key CRT Constant d mod (q-1)	KS KEY	✓	✓	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
DGI-8203	ICC Private Key CRT Constant d mod (p-1)	KS KEY	✓	✓	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
DGI-8204	ICC Private Key CRT Constant prime factor q	KS KEY	✓	✓	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
DGI-8205	ICC Private Key CRT Constant prime factor p	KS KEY	✓	✓	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-8301	ICC PIN Encipherment Private Key CRT Constant $q^{-1} \text{ mod } p$	KS KEY																													
DGI-8302	ICC PIN Encipherment Private Key CRT Constant d mod (q-1)	KS KEY																													
DGI-8303	ICC PIN Encipherment Private Key CRT Constant d mod (p-1)	KS KEY																													
DGI-8304	ICC PIN Encipherment Private Key CRT Constant prime factor q	KS KEY																													
DGI-8305	ICC PIN Encipherment Private Key CRT Constant prime factor p	KS KEY																													
DGI-8400	DES CVC3 Keys	KS KEY																		✓											
DGI-8401	DES CVC3 Keys M/Chip Advance Contactless																			✓											
DGI-9000	DES Key Check Values		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
DGI-9001	DES Key Check Values CVC3																			✓	✓										

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-9010	Offline PIN Data		√	√		√	√	√								√	√	√	√	√	√	√	√	√	√	√	√	√				
DGI-9010	Offline PIN Data semTags				√										√				√													
DGI-9102	PSE - SELECT PSE Response Data														√																	
DGI-9102	PPSE - SELECT PPSE Response Data																		√	√	√											
DGI-9102	PPSE - Select PPSE Response Data M/Chip Advance																	√	√	√	√	√	√	√	√	√	√	√				
DGI-9102	SELECT Response Data VSDC			√	√										√																	
DGI-9102	SELECT Response Data VSDC VIS 1.5.4					√									√																	
DGI-9102	SELECT Response Data (Contactless VISA Microtags)																√															
DGI-9102	SELECT Response Data VSDC [SDA]			√																												

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-9102	SELECT Response Data M/Chip															✓															
DGI-9102	SELECT Response Data M/Chip Advance															✓															
DGI-9102	SELECT Response Data M/Chip [SDA]															✓															
DGI-9102	SELECT Response Data CAP/DPA															✓															
DGI-9102	SELECT Response Data AMEX																	✓													
DGI-9102	SELECT Response Data AMEX [SDA]																	✓													
DGI-9103	SELECT Response Data VISA PAYWAVE						✓																								
DGI-9103	SELECT Response Data VISA PAYWAVE VCPS 2.1.2							✓																							
DGI-9104	GET PROCESSING OPTIONS Response Data		✓	✓	✓	✓		✓		✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓							

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-9104	GET PROCESSING OPTIONS Response Data CAP/DPA														✓																
DGI-9104	GET PROCESSING OPTIONS Response Data AMEX																														
DGI-9115	qVSDC GPO Response (Online Decline without ODA)	KS KEY							✓																						
DGI-9116	qVSDC GPO Response (Offline with ODA)	KS KEY							✓																						
DGI-9117	qVSDC GPO Response (Online with ODA)	KS KEY							✓																						
DGI-9200	GENERATE AC Response Data VISA		✓	✓	✓	✓		✓		✓	✓	✓			✓	✓										✓	✓				
DGI-9200	GENERATE AC Response Data MASTERCARD																✓									✓					
DGI-9200	GENERATE AC Response Data AMEX																										✓	✓			

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-9206	GET PROCESSING OPTIONS VISA PayWave MSD		✓																												
DGI-9207	GET PROCESSING OPTIONS VISA PayWave qVSDC			✓											✓																
DGI-A001	Alternate Select Response Mchip														✓	✓							✓								
DGI-A001	Alternate Select Response Mchip Advance															✓	✓	✓					✓								
DGI-A002	Persistent Data Elements M/Chip														✓	✓							✓								
DGI-A002	Common Risk Management Parameters M/Chip Advance															✓	✓	✓					✓								
DGI-A003	CFDC Key Limits M/Chip														✓	✓	✓	✓					✓	✓							
DGI-A004	Public Key Length															✓	✓	✓	✓				✓	✓							
DGI-A005	Alternate Get Procession Options Mchip															✓	✓	✓	✓				✓	✓							

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS 1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS 1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS 1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-A006	ICC Dynamic Number Master KEY M/Chip	KS KEY														√	√	√	√	√	√	√									
DGI-A007	Persistent Data Elements M/Chip - 1															√															
DGI-A007	Persistent Data Elements M/Chip - 2															√															
DGI-A007	Application Status and ATC Limit															√															
DGI-A008	Bad Cryptogram Counter Limit M/Chip															√															
DGI-A008	PIN Decipherments Error Counter Limit															√															
DGI-A009	Application Life Cycle Data															√															
DGI-A012	Contact Risk Management Parameters M/Chip Advance															√															
DGI-A013	Application Control M/Chip Advance Contact															√															

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (Pay/Pass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-A014	Read Record Filter M/Chip Advance Contact																														
DGI-A015	Card Issuer Action Codes M/Chip Advance Contact																														
DGI-A016	ICC Dynamic Number Master Key M/Chip Advance Contactless	KS KEY															✓														
DGI-A017	3DES Key Information M/Chip Advance Contact																	✓	✓												
DGI-A022	Contactless Risk Management Parameters M/Chip Advance																			✓											
DGI-A023	Application Control M/Chip Advance Contactless																			✓											
DGI-A024	Read Record Filter M/Chip Advance Contactless																			✓											
DGI-A025	Card Issuer Action Codes M/Chip Advance Contactless																			✓											

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	VISA / Electron (VIS 1.4.1) (Contact only) (DDA)	VISA / Electron (VIS 1.5.4) (Contact only) (DDA)	Paywave VISA / Electron (VIS1.4.1) (Contact-mode) (DDA)	Paywave VISA / Electron (VCPS 2.0.2) (Contactless-mode) (DDA)	Paywave Visa / Electron (VCPS1.5.4) (Contact-Mode) (DDA)	PayWave Visa / Electron (VCPS 2.1.2) (Contactless-Mode) (fDDA)	MULTIBANCO-VISA (SDA)	MULTIBANCO-VISA (VIS1.4.1) (DDA)	MULTIBANCO-VISA (VIS 1.5.4) (DDA)	PSE (VIS 1.5)	PPSE (VCPS 2.1.2)	Stickers Contactless VISA Microtags VCPS2.1 DPA	MasterCard/ Maestro (MCHIP) (Contact-Only) (SDA)	MasterCard/ Maestro (MCHIP) (Contact-Only) (DDA)	MasterCard/ Maestro (MCHIP Advance) (Contact-Only) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contact-Mode) (DDA)	PayPass MasterCard/ Maestro (PayPass MCHIP) (Contactless-Mode) (CDA)	PayPass MasterCard/ Maestro (PayPass MCHIP Advance) (Contactless-Mode) (CDA)	MULTIBANCO-MASTERCARD (SDA)	MULTIBANCO-MASTERCARD (DDA)	MULTIBANCO-MASTERCARD MCHIP Advance (DDA)	PSE (M/Chip Advance)	CAP	AMEX (AEIPS) (Contact-Only) (SDA)	MULTIBANCO-AMEX (SDA)	AMEX (AEIPS) (Contact-Only) (DDA)	MULTIBANCO-AMEX (DDA)
DGI-A027	3DES Key Information M/Chip Advance Contactless																														
DGI-B002	(Private) Card Risk Management Data MASTERCARD PayPass																														
DGI-B002	Log Configuration															✓		✓		✓		✓									
DGI-B005	GET PROCESSING OPTIONS MASTERCARD PayPass																		✓												
DGI-B023	IVCVC3 M/Chip Advance Contactless																		✓												

3.2.5.5.6 Layout das DGI - PERS v3

Na tabela seguinte é detalhada a composição de cada uma das possíveis DGI.

Os elementos de dados que formam as DGI podem decompor-se em:

- **TLV:** Tag, Length e Value do Elemento. Caso dos elementos de dados simples.
- **TL:** Só Tag e Length. Caso dos elementos de dados compostos por outros Elementos.
- **V:** Só Value. Caso dos elementos de dados que não têm Tag atribuída em (1), (7), (10) e (19).

Em qualquer dos casos, cada componente (T, L ou V) ocupa uma linha na tabela.

Para cada componente do Elemento de Dados, é indicado:

- **Nome.** De acordo com (1), (4) e (12).
- **Dim (Dimensão).** Dimensão efetiva (em caracteres) com que o Elemento vem no Ficheiro de Personalização. n1-n2 representa um intervalo. n3 n4 representa 2 valores possíveis.
- **Form (Formato). Formato dos dados no Ficheiro PERS:**
 - **ASCII:** representação ASCII do texto.
 - **Binary:** Varia entre “0” e “9”, “A” e “F”.
 - **H - Hexadecimal:** Varia entre ‘0’ e ‘9’, ‘A’ e ‘F’.
- **Req (Requisito). Presença do elemento na DGI:**
 - **M: Mandatório.** Elemento sempre presente na DGI (quando esta exista).
 - **O: Opcional.** O elemento pode não estar presente na DGI.

Conteúdo. Os valores apresentados nesta coluna devem ser considerados como informativos.

Tabela 209 - DGI-0101 PSE - First Record Data

DGI 0101 PSE - First Record Data					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	1	H	M	
Tag	Tag Directory Entry Template App	1	H	M	“61”
Len	Len Directory Entry Template App	1	H	M	
Tag	Tag Application Identifier App	1	H	M	“4F”
Len	Len Application Identifier App	1	H	M	
Val	Application Identifier App		H	M	
Tag	Tag Application Label App	1	H	M	“50”
Len	Len Application Label App	1	H	M	
Val	Application Label App		H	M	
Tag	Tag Application Preferred Name App	2	H	M	“9F12”

DGI 0101 PSE - First Record Data					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Preferred Name App	1	H	M	
Val	Application Preferred Name App		H	M	
Tag	Tag Application Priority Indicator App	1	H	M	“87”
Len	Len Application Priority Indicator App	1	H	M	
Val	Application Priority Indicator App		H	M	

Tabela 210 - DGI-0102 PSE - Second Record Data

DGI-0102 PSE - Second Record Data					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	1	H	M	
Tag	Tag Directory Entry Template App	1	H	M	“61”
Len	Len Directory Entry Template App	1	H	M	
Tag	Tag Application Identifier App	1	H	M	“4F”
Len	Len Application Identifier App	1	H	M	
Val	Application Identifier App		H	M	
Tag	Tag Application Label App	1	H	M	“50”
Len	Len Application Label App	1	H	M	
Val	Application Label App		H	M	
Tag	Tag Application Preferred Name App	2	H	M	“9F12”
Len	Len Application Preferred Name App	1	H	M	
Val	Application Preferred Name App		H	M	
Tag	Tag Application Priority Indicator App	1	H	M	“87”
Len	Len Application Priority Indicator App	1	H	M	
Val	Application Priority Indicator App		H	M	

Tabela 211 - DGI-01nn PSE - Subsequent Record Data

DGI-01nn PSE - Subsequent Record Data					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“01nn”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	1	H	M	
Tag	Tag Directory Entry Template App n	1	H	M	“61”
Len	Len Directory Entry Template App n	1	H	M	

DGI-01nn PSE - Subsequent Record Data					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application Identifier App n	1	H	M	"4F"
Len	Len Application Identifier App n	1	H	M	
Val	Application Identifier App n		H	M	
Tag	Tag Application Label App n	1	H	M	"50"
Len	Len Application Label App n	1	H	M	
Val	Application Label App n		H	M	
Tag	Tag Application Preferred Name App n	2	H	M	"9F12"
Len	Len Application Preferred Name App n	1	H	M	
Val	Application Preferred Name App n		H	M	
Tag	Tag Application Priority Indicator App n	1	H	M	"87"
Len	Len Application Priority Indicator App n	1	H	M	
Val	Application Priority Indicator App n		H	M	

Tabela 212 - DGI-0101 Track Data VISA; DGI-0102 Track Data VISA; DGI-0203 Track Data VISA

DGI-0101 Track Data VISA DGI-0102 Track Data VISA DGI-0203 Track Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0101" "0102" "0203"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	"57"
Len	Len Track 2 Equivalent Data	1	H	M	"13"
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Track 1 Discretionary Data	2	H	M	"9F1F"
Len	Len Track 1 Discretionary Data	1	H	M	"17" "18" "1A"
Val	Track 1 Discretionary Data	23 24 26	H	M	

Tabela 213 - DGI-0101 Track Data MasterCard [SDA]

DGI-0101 Track Data MasterCard [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”
Val	Track 1 Discretionary Data	23 24 26	H	O	

Tabela 214 - DGI-0101 Track Data MasterCard; DGI-0102 Track Data MasterCard

DGI-0101 Track Data MasterCard					
DGI-0102 Track Data MasterCard					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0101” “0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	

Tabela 215 - DGI-0101 Track Data VISA Paywave MSD

DGI-0101 Track Data VISA PAYWAVE MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”

DGI-0101 Track Data VISA PAYWAVE MSD					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Cardholdername	2	H	O	“5F20”
Len	Len Cardholdername	1	H	O	“1A”
Val	Cardholdername	26	H	O	
Tag	Tag Track 1 Discretionary Data	2	H	O	“9F1F”
Len	Len Track 1 Discretionary Data	1	H	O	“17” “18” “1A”
Val	Track 1 Discretionary Data	23 24 26	H	O	

 Tabela 216 - DGI-0101 *Track Data MasterCard PayPass MagStripe*

DGI-0101 Track Data MASTERCARD PayPass MagStripe					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag MagStripe AVN	2	H	M	“9F6C”
Len	Len MagStripe AVN	1	H	M	“02”
Val	MagStripe AVN	2	H	M	MasterCard: “0001” Maestro: “FFFF”
Tag	Tag Track 1 Bit Map for CVC3 (*)	2	H	M	“9F62”
Len	Len Track 1 Bit Map for CVC3 (*)	1	H	M	“06”
Val	Track 1 Bit Map for CVC3 (*)	6	H	M	
Tag	Tag Track 1 Bit Map for UN and ATC (*)	2	H	M	“9F63”
Len	Len Track 1 Bit Map for UN and ATC (*)	1	H	M	“06”
Val	Track 1 Bit Map for UN and ATC (*)	6	H	M	
Tag	Tag Track 1 Data (*)	1	H	M	“56”
Len	Len Track 1 Data (*)	1	H	M	Até “4C”
Val	Track 1 Data (*)	Até 76	ASCII	M	
Tag	Tag Track 1 Number for ATC Digits (*)	2	H	M	“9F64”
Len	Len Track 1 Number for ATC Digits (*)	1	H	M	“01”
Val	Track 1 Number for ATC Digits (*)	1	H	M	
Tag	Tag Track 2 Bit Map for CVC3 (*)	2	H	M	“9F65”
Len	Len Track 2 Bit Map for CVC3 (*)	1	H	M	“02”

DGI-0101 Track Data MASTERCARD PayPass MagStripe

	Nome	Dim	Form	Req	Conteúdo
Val	Track 2 Bit Map for CVC3 (*)	2	H	M	
Tag	Tag Track 2 Bit Map for UN and ATC (*)	2	H	M	“9F66”
Len	Len Track 2 Bit Map for UN and ATC (*)	1	H	M	“02”
Val	Track 2 Bit Map for UN and ATC (*)	2	H	M	
Tag	Tag Track 2 Data (*)	2	H	M	“9F6B”
Len	Len Track 2 Data (*)	1	H	M	Até “13”
Val	Track 2 Data (*)	Até 19	H	M	
Tag	Tag Track 2 Number for ATC Digits (*)	2	H	M	“9F67”
Len	Len Track 2 Number for ATC Digits (*)	1	H	M	“01”
Val	Track 2 Number for ATC Digits (*)	1	H	M	

(*) Estes elementos não vêm para PayPass Maestro.

Tabela 217 - DGI-0101 Track Data & Authentication & Unsigned Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0101”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	“57”
Len	Len Track 2 Equivalent Data	1	H	M	“13”
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	“15”
Val	CDOL1	21	H	M	“9F02069F03069F1A0295055F2A029A039C019F3704”
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	“17”
Val	CDOL2	23	H	M	“8A029F02069F03069F1A0295055F2A029A039C019F3704”
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	1	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”

DGI-0101 Track Data & Authentication & Unsigned Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Val	Application Currency Code	2	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	"8F"
Len	Len Certification Authority Public Key Index	1	H	M	"01"
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	"9F32"
Len	Len Issuer PK Exponent	1	H	M	"01"
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	"92"
Len	Len Issuer PK Remainder	1	H	O	
Val	Issuer PK Remainder		H	O	
Tag	Tag ICC Public Key Exponent	1	H	M	"9F47"
Len	Len ICC Public Key Exponent	1	H	M	"01"
Val	ICC Public Key Exponent	1	H	M	
Tag	Tag ICC Public Key Remainder	1	H	M	"9F48"
Len	Len ICC Public Key Remainder	1	H	M	
Val	ICC Public Key Remainder		H	M	
Tag	Tag Dynamic Data Object List	1	H	M	"9F49"
Len	Len Dynamic Data Object List	1	H	M	"03" "10"
Val	ICC Dynamic Data Object List (DDOL)	3 16	H	M	"9F3704" "9F1A029F1C085F2A029 A039C019F3704"
Tag	Tag Static Data Authentication Tag List	2	H	M	"9F4A"
Len	Len Static Data Authentication Tag List	1	H	M	"01"
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	"82"

Tabela 218 - DGI-0101 Track Data and Authentication Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0101"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	"5F20"
Len	Len Cardholder Name	1	H	M	"1A"
Val	Cardholder Name	26	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	"57"
Len	Len Track 2 Equivalent Data	1	H	M	"13"

DGI-0101 Track Data and Authentication Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	"8F"
Len	Len Certification Authority Public Key Index	1	H	M	"01"
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	"90"
Len	Len Issuer PK Certificate	2	H	M	"81XX" "81XX"
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	"9F32"
Len	Len Issuer PK Exponent	1	H	M	"01"
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	"92"
Len	Len Issuer PK Remainder	1	H	O	"14"
Val	Issuer PK Remainder		H	O	
Tag	Tag Static Data Authentication Tag List	2	H	M	"9F4A"
Len	Len Static Data Authentication Tag List	1	H	M	"01"
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	"82"

Tabela 219 - DGI-0102 Cardholder Name; DGI-0102 Cardholder Name CIF; DGI-0103 Cardholder Name; DGI-0103 Cardholder Name CIF

DGI-0102 Cardholder Name DGI-0102 Cardholder Name CIF DGI-0103 Cardholder Name DGI-0103 Cardholder Name CIF					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		"0102" "0103"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	"5F20"
Len	Len Cardholder Name	1	H	M	"1A"
Val	Cardholder Name	26	H	M	

Tabela 220 - DGI-0102 Cardholdername AMEX

DGI-0102 Cardholdername AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	
Val	Cardholder Name		H	M	

Tabela 221 - DGI-0102 Unsigned Card Data AMEX [SDA]

DGI-0102 Unsigned Card Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0102”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	“15”
Val	CDOL1	21	H	M	“9F02069F03069F1A0295055F2A029A039C019F3704”
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	
Tag	Tag Signed Static Application Data	1	H	M	“93”
Len	Len Signed Static Application Data	1	H	M	“70”
		2			“8190”
Val	Signed Static Application Data (SSAD)	144	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	1	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H		“8E”
Len	Len Cardholder Verification Method List	1	H		A)

DGI-0102 Unsigned Card Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Val	Cardholder Verification Method List (CVM List)	var	H		

- A) Tamanho variável entre “0” e “60”.
- B) Tamanho variável, com um máximo “17”.

Tabela 222 - DGI-0103 Signed Card Data AMEX

DGI-0103 Signed Card Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0103”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes – Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes – Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes – Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	

DGI-0103 Signed Card Data AMEX

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	
Val	Cardholder Verification Method List (CVM List)		H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo das *tags* informadas na SDA *Tag List* (ou seja, o AIP).

Tabela 223 - DGI-0103 Signed Card Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0103”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes – Default	1	H	M	“05”

DGI-0103 Signed Card Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes – Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes – Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

Tabela 224 - DGI-0104 ISS PK Certificate

DGI-0104 ISS PK Certificate					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0104”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	“81XX”
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX”
Val	Issuer PK Certificate		H	M	

Tabela 225 - DGI-0105 ICC PK Certificate

DGI-0105 ICC PK Certificate					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0105”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”

DGI-0105 ICC PK Certificate

	Nome	Dim	Form	Req	Conteúdo
Len	Len AEF Data Template	2	H	M	"81XX"
Tag	Tag ICC Public Key Certificate	2	H	M	"9F46"
Len	Len ICC Public Key Certificate	2	H	M	"81XX"
Val	ICC Public Key Certificate		H	M	

Tabela 226 - DGI-0201 Dynamic Authentication Data; DGI-0302 Dynamic Authentication Data; DGI-0304 Dynamic Authentication Data
DGI-0201 Dynamic Authentication Data
DGI-0302 Dynamic Authentication Data
DGI-0304 Dynamic Authentication Data

	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		"0201" "0302" "0304"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	2	H	M	
Tag	Tag ICC PK Certificate	2	H	M	"9F46"
Len	Len ICC PK Certificate	1	H	M	"70"
		2			"8180"
		2			"8190"
Val	ICC PK Certificate		H	M	
Tag	Tag ICC PK Exponent	2	H	M	"9F47"
Len	Len ICC PK Exponent	1	H	M	"01"
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	"9F48"
Len	Len ICC PK Remainder	1	H	O	"14"
Val	ICC PK Remainder		H	O	
Tag	Tag DDOL	2	H	M	"9F49"
Len	Len DDOL	1	H	M	"03" "10"
Val	DDOL	3	H	M	"9F3704" "9F1A029F1C085F2A029A039C019F3704"

Tabela 227 - DGI-0201 Signed Card Data VISA [SDA]
DGI-0201 Signed Card Data VISA [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0201"
Len DGI		1	H		

DGI-0201 Signed Card Data VISA [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Application PAN Seq Nbr	1	H	M	“5A”
Len	Len Application PAN Seq Nbr	1	H	M	“07” “08”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	7 8	H	M	
Tag	Tag Application Usage Control	2	H	M	“5F34”
Len	Len Application Usage Control	1	H	M	“01”
Val	Application Usage Control (AUC)	1	H	M	“00”
Tag	Tag Personal Account Number	2	H	M	“9F07”
Len	Len Personal Account Number	1	H	M	“02”
Val	Personal Account Number (PAN)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes - Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes - Default	1	H	M	“05”
Val	Issuer Action Codes - Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes - Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial	1	H	M	“05”
Val	Issuer Action Codes - Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes - Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online	1	H	M	“05”
Val	Issuer Action Codes - Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	1	H	M	“82”

NOTA: Para o cálculo do SSAD entram os dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.

Tabela 228 - DGI-0201 Signed Card Data MasterCard; DGI-0202 Signed Card Data MasterCard

DGI-0201 Signed Card Data MASTERCARD					
DGI-0202 Signed Card Data MASTERCARD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0201” “0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	B)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	C)
Val	CDOL2	var	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”
Len	Len Application Usage Control	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List	var	H	M	

DGI-0201 Signed Card Data MASTERCARD
DGI-0202 Signed Card Data MASTERCARD

	Nome	Dim	Form	Req	Conteúdo
	(CVM List)				
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”
Len	Len Issuer Action Codes - Default	1	H	M	“05”
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes - Denial	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes - Online	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List	1	H	M	“82”
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”.
- B) Tamanho variável, com um máximo “15”.
- C) Tamanho variável, com um máximo de “17”.

Tabela 229 - DGI-0201 Signed Card Data MasterCard PayPass

DGI-0201 Signed Card Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0201”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Track 2 Equivalent Data (PayPass)	1	H	M	“57”
Len	Len Track 2 Equivalent Data (PayPass)	1	H	M	“13”
Val	Track 2 Equivalent Data (PayPass)	19	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”

DGI-0201 Signed Card Data MasterCard PayPass

	Nome	Dim	Form	Req	Conteúdo
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	"9F42"
Len	Len Application Currency Code	1	H	M	"02"
Val	Application Currency Code	2	H	M	"0978"
Tag	Tag CDOL1	1	H	M	"8C"
Len	Len CDOL1	1	H	M	B)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	"8D"
Len	Len CDOL2	1	H	M	C)
Val	CDOL2	var	H	M	
Tag	Tag Static Data Authentication Tag List (PayPass)	2	H	M	"9F4A"
Len	Len Static Data Authentication Tag List (PayPass)	1	H	M	"01"
Val	Static Data Authentication Tag List (SDA Tag List) (PayPass)	1	H	M	"82"
Tag	Tag Application Effective Date	2	H	M	"5F25"
Len	Len Application Effective Date	1	H	M	"03"
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	"5F24"
Len	Len Application Expiration Date	1	H	M	"03"
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	"5A"
Len	Len Personal Account Number	1	H	M	"07" "08"
Val	Paypass Personal Account Number (PPAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	"5F34"
Len	Len Application PAN Seq Nbr	1	H	M	"01"
Val	Paypass Application PAN Seq Nbr (PPAN Seq Nbr)	1	H	M	"00"
Tag	Tag Application Usage Control	2	H	M	"9F07"
Len	Len Application Usage Control	1	H	M	"02"
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List (PayPass)	1	H	M	"8E"
Len	Len Cardholder Verification Method List (PayPass)	1	H	M	A)
Val	Cardholder Verification Method List (CVM List) (PayPass)	var	H	M	
Tag	Tag Issuer Action Codes – Default (PayPass)	2	H	M	"9F0D"
Len	Len Issuer Action Codes - Default (PayPass)	1	H	M	"05"

DGI-0201 Signed Card Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Action Codes – Default (IAC-Default) (PayPass)	5	H	M	
Tag	Tag Issuer Action Codes - Denial (PayPass)	2	H	M	“9F0E”
Len	Len Issuer Action Codes - Denial (PayPass)	1	H	M	“05”
Val	Issuer Action Codes – Denial (IAC-Denial) (PayPass)	5	H	M	
Tag	Tag Issuer Action Codes - Online (PayPass)	2	H	M	“9F0F”
Len	Len Issuer Action Codes - Online (PayPass)	1	H	M	“05”
Val	Issuer Action Codes – Online (IAC-Online) (PayPass)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

- A) Tamanho variável entre “0” e “60”;
- B) Tamanho variável, com um máximo de “15”.
- C) Tamanho variável, com um máximo de “17”.

Tabela 230 - DGI-0201 *Dynamic Authentication Data (without ICC PK Cert)*

DGI-0201 Dynamic Authentication Data (without ICC PK Cert)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0201”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	2	H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder	20	H	O	
Tag	Tag DDOL	2	H	M	“9F49”
Len	Len DDOL	1	H	M	“03” “10”
Val	DDOL	3 16	H	M	“9F3704” “9F1A029F1C085F2A029 A039C019F3704”

Tabela 231 - DGI-0202 Static Authentication Data; DGI-0203 Static Data Authentication Data - 2 [SDA]; DGI-0301 Static Authentication Data; DGI-0303 Static Authentication Data

DGI-0202 Static Authentication Data DGI-0203 Static Data Authentication Data - 2 [SDA] DGI-0301 Static Authentication Data DGI-0303 Static Authentication Data						
	Nome	Dim	Form	Req	Conteúdo	
Tag DGI			2	H		
					“0202” “0203” “0301” “0303”	
Len DGI			1	H		
Tag	Tag AEF Data Template	1	H	M	“70”	
Len	Len AEF Data Template	2	H	M		
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”	
Len	Len Certification Authority Public Key Index	1	H	M	“01”	
Val	Certification Authority Public Key Index (PKI)	1	H	M		
Tag	Tag Issuer PK Certificate	1	H	M	“90”	
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”	
Val	Issuer PK Certificate	var	H	M		
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”	
Len	Len Issuer PK Exponent	1	H	M	“01”	
Val	Issuer PK Exponent	1	H	M		
Tag	Tag Issuer PK Remainder	1	H	O	“92”	
Len	Len Issuer PK Remainder	1	H	O	“14”	
Val	Issuer PK Remainder		H	O		

Tabela 232 - DGI-0202 Unsigned Card Data VISA [SDA]

DGI-0202 Unsigned Card Data VISA [SDA]						
	Nome	Dim	Form	Req	Conteúdo	
Tag DGI			2	H		
					“0202”	
Len DGI			1	H		
Tag	Tag AEF Data Template	1	H	M	“70”	
Len	Len AEF Data Template	1	H	M		
Tag	Tag Application Version Number	2	H	M	“9F08”	
Len	Len Application Version Number	1	H	M	“02”	
Val	Application Version Number (AVN)	2	H	M		
Tag	Tag Application Currency Code	1	H	M	“9F42”	
Len	Len Application Currency Code	1	H	M	“02”	

DGI-0202 Unsigned Card Data VISA [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Application Currency Code	2	H	M	
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	A)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	

- A) Tamanho variável, com um máximo “15”.
 B) Tamanho variável, com um máximo “17”.

Tabela 233 - DGI-0202 Signed Card Data MasterCard M/Chip Advance

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	
Tag	Tag Application Usage Control	2	H	M	“9F07”

DGI-0202 Signed Card Data MasterCard M/Chip Advance						
	Nome	Dim	Form	Req	Conteúdo	
Len	Len Application Usage Control	1	H	M	“02”	
Val	Application Usage Control (AUC)	2	H	M		
Tag	Tag CDOL1	1	H	M	“8C”	
Len	Len CDOL1	1	H	M	“27”	
Val	CDOL1	39	H	M	“9F02069F03069F1A0295055F2A029A039C019F37049F35019F45029F4C089F34039F21039F7C14”	
Tag	Tag CDOL2	1	H	M	“8D”	
Len	Len CDOL2	1	H	M	“12”	
Val	CDOL2	18	H	M	“910A8A0295059F37049F4C08”	
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”	
Len	Len Cardholder Verification Method List	1	H	M		
Val	Cardholder Verification Method List (CVM List)	var	H	M		
Tag	Tag Issuer Action Codes – Default	2	H	M	“9F0D”	
Len	Len Issuer Action Codes - Default	1	H	M	“05”	
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	“B450840000”	
Tag	Tag Issuer Action Codes - Denial	2	H	M	“9F0E”	
Len	Len Issuer Action Codes - Denial	1	H	M	“05”	
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M		
Tag	Tag Issuer Action Codes - Online	2	H	M	“9F0F”	
Len	Len Issuer Action Codes - Online	1	H	M	“05”	
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	“B470848000”	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”	
Len	Len Static Data Authentication Tag List	1	H	M	“01”	
Val	Static Data Authentication Tag List	1	H	M	“82”	
Tag	Tag Issuer Country Code	2	H	M	“5F28”	
Len	Len Issuer Country Code	1	H	M	“02”	
Val	Issuer Country Code	2	H	M		

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

Tabela 234 - DGI-0202 Unsigned Card Data MasterCard; DGI-0203 Unsigned Card Data MasterCard

DGI-0202 Unsigned Card Data MasterCard						
DGI-0203 Unsigned Card Data MasterCard						
	Nome	Dim	Form	Req	Conteúdo	
Tag DGI		2	H		“0202” “0203”	
Len DGI		1	H			
Tag	Tag AEF Data Template	1	H	M	“70”	

DGI-0202 Unsigned Card Data MasterCard
DGI-0203 Unsigned Card Data MasterCard

	Nome	Dim	Form	Req	Conteúdo
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	

Tabela 235 - DGI-0202 Unsigned Card Data MasterCard [SDA]
DGI-0202 Unsigned Card Data MasterCard [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0202”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	
Tag	Tag CDOL1	1	H	M	“8C”
Len	Len CDOL1	1	H	M	A)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	“8D”
Len	Len CDOL2	1	H	M	B)

DGI-0202 Unsigned Card Data MasterCard [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	CDOL2	var	H	M	

- A) Tamanho variável, com um máximo “15”.
- B) Tamanho variável, com um máximo “17”.

Tabela 236 - DGI-0202 Static Authentication Data (without Issuer PK Cert)

DGI-0202 Static Authentication Data (without Issuer PK Cert)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0202”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	2	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder	20	H	O	

Tabela 237 - DGI-0203 Static Authentication Data - 1 [SDA]

DGI-0203 Static Data Authentication Data - 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	“9F4A”
Len	Len Static Data Authentication Tag List	1	H	M	“01”
Val	Static Data Authentication Tag List (SDA Tag List)	1	H	M	“82”
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	“90”

DGI-0203 Static Data Authentication Data - 1					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”
Val	Issuer PK Certificate	var	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder		H	O	

Tabela 238 - DGI-0203 Unsigned Card Data MasterCard Mchip Advance

DGI-0203 Unsigned Card Data MasterCard Mchip Advance					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag Application Version Number	2	H	M	“9F08”
Len	Len Application Version Number	1	H	M	“02”
Val	Application Version Number (AVN)	2	H	M	“0002”
Tag	Tag Application Currency Exponent	2	H	M	“9F44”
Len	Len Application Currency Exponent	1	H	M	“01”
Val	Application Currency Exponent	1	H	M	

Tabela 239 - DGI-0203 Dynamic Authentication Data VISA Paywave

DGI-0203 Dynamic Authentication Data VISA Paywave					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0203”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Val	ICC PK Certificate		H	M	
Tag	Tag ICC PK Certificate	2	H	M	“9F46”
Len	Len ICC PK Certificate	1	H	M	“70”
		2			“81XX”
		2			“81XX”
Val	ICC PK Certificate	var	H	M	

DGI-0203 Dynamic Authentication Data VISA Paywave					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder		H	O	
Tag	Tag Personal Account Number (PAN)	1	H	M	“5A”
Len	Len Personal Account Number (PAN)	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr	1	H	M	
Tag	Tag Card Authentication Related Data	2	H	M	“9F69”
Len	Len Card Authentication Related Data	1	H	M	A)
Val	Card Authentication Related Data	var	H	M	

A) Tem tamanho variável, com um máximo “07”.

Tabela 240 - DGI-0203 Issuer PK Certificate

DGI-0203 Issuer PK Certificate					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0203”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	2	H	M	
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX” “81XX”
Val	Issuer PK Certificate	var	H	M	

Tabela 241 - DGI-0204 Signed Static Application Data [SDA]; DGI-0302 Signed Static Application Data

DGI-0204 Signed Static Application Data [SDA]					
DGI-0302 Signed Static Application Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0204” “0302”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1 2	H	M	
Tag	Tag Signed Static Application Data	1	H	M	“93”
Len	Len Signed Static Application Data	1 2	H	M	“70” “81XX”
Val	Signed Static Application Data (SSAD)	var	H	M	

Tabela 242 - DGI-0204 ICC PK Certificate Paywave

DGI-0204 ICC PK Certificate Paywave					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0204”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	2	H	M	
Tag	Tag ICC PK Certificate	2	H	M	“9F46”
Len	Len ICC PK Certificate	1 2 2	H	M	“70” “81XX” “81XX”
Val	ICC PK Certificate	var	H	M	

Tabela 243 - DGI-0204 ICC PK Certificate

DGI-0204 ICC PK Certificate					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0204”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	2	H	M	
	Tag ICC PK Certificate	2	H	M	“9F46”
	Len ICC PK Certificate	1 2 2	H	M	“70” “81XX” “81XX”

DGI-0204 ICC PK Certificate

	Nome	Dim	Form	Req	Conteúdo
	ICC PK Certificate	var	H	M	

Tabela 244 - DGI-0205 Dynamic Authentication Data VISA Paywave (without ICC PK Cert)

DGI-0205 Dynamic Authentication Data VISA Paywave (without ICC PK Cert)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0205”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	2	H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder	20	H	O	
Tag	Tag Personal Account Number (PAN)	1	H	M	“5A”
Len	Len Personal Account Number (PAN)	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“01”
Val	Issuer Country Code	1	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr	1	H	M	
Tag	Tag Application Usage Control (AUC)	2	H	M	“9F07”
Len	Len Application Usage Control (AUC)	1	H	M	“02”
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Form Factor Indicator	2	H	M	“9F6E”
Len	Len Form Factor Indicator	1	H	M	“04”
Val	Form Factor Indicator	4	H	M	VISA '20500000' VISA Electron '20400000'
Tag	Tag Card Authentication Related Data	2	H	M	“9F69”

DGI-0205 Dynamic Authentication Data VISA Paywave (without ICC PK Cert)

	Nome	Dim	Form	Req	Conteúdo
Len	Len Card Authentication Related Data	1	H	M	“07”
Val	Card Authentication Related Data	var	H	M	“0100000000000000”

Tabela 245 - DGI-0206 ICC PK Certificate
DGI-0206 ICC PK Certificate

	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“0206”
Len DGI		1	H		
Tag	Tag Record Template	1	H	M	“70”
Len	Len Record Template	2	H	M	
	Tag ICC PK Certificate	2	H	M	“9F46”
	Len ICC PK Certificate	1 2 2	H	M	“70” “81XX” “81XX”
	ICC PK Certificate	var	H	M	

Tabela 246 - DGI-0301 Signed Card Data VISA
DGI-0301 Signed Card Data VISA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0301”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Effective Date	2	H	M	“5F25”
Len	Len Application Effective Date	1	H	M	“03”
Val	Application Effective Date	3	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”

DGI-0301 Signed Card Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application Usage Control	2	H	M	"9F07"
Len	Len Application Usage Control	1	H	M	"02"
Val	Application Usage Control (AUC)	2	H	M	
Tag	Tag Cardholder Verification Method List	1	H	M	"8E"
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	
Tag	Tag Issuer Action Codes – Default	2	H	M	"9F0D"
Len	Len Issuer Action Codes – Default	1	H	M	"05"
Val	Issuer Action Codes – Default (IAC-Default)	5	H	M	
Tag	Tag Issuer Action Codes – Denial	2	H	M	"9F0E"
Len	Len Issuer Action Codes – Denial	1	H	M	"05"
Val	Issuer Action Codes – Denial (IAC-Denial)	5	H	M	
Tag	Tag Issuer Action Codes – Online	2	H	M	"9F0F"
Len	Len Issuer Action Codes – Online	1	H	M	"05"
Val	Issuer Action Codes – Online (IAC-Online)	5	H	M	
Tag	Tag Issuer Country Code	2	H	M	"5F28"
Len	Len Issuer Country Code	1	H	M	"02"
Val	Issuer Country Code	2	H	M	
Tag	Tag Static Data Authentication Tag List	2	H	M	"9F4A"
Len	Len Static Data Authentication Tag List	1	H	M	"01"
Val	Static Data Authentication Tag List	1	H	M	"82"

NOTA: Os dados estáticos a assinar são formados pelos dados desta DGI em fundo cinzento, concatenados com o conteúdo da SDA Tag List.

A) Tamanho variável entre "0" e "60".

Tabela 247 - DGI-0302 Unsigned Card Data VISA

DGI-0302 Unsigned Card Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0302" "0202"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	1	H	M	

DGI-0302 Unsigned Card Data VISA

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application Version Number	2	H	M	"9F08"
Len	Len Application Version Number	1	H	M	"02"
Val	Application Version Number (AVN)	2	H	M	"9A" (154 decimal)
Tag	Tag Application Currency Code	1	H	M	"9F42"
Len	Len Application Currency Code	1	H	M	"02"
Val	Application Currency Code	2	H	M	
Tag	Tag Application Currency Exponent	2	H	M	"9F44"
Len	Len Application Currency Exponent	1	H	M	"01"
Val	Application Currency Exponent	1	H	M	
Tag	Tag CDOL1	1	H	M	"8C"
Len	Len CDOL1	1	H	M	A)
Val	CDOL1	var	H	M	
Tag	Tag CDOL2	1	H	M	"8D"
Len	Len CDOL2	1	H	M	B)
Val	CDOL2	var	H	M	

- A) Tamanho variável, com um máximo "15".
- B) Tamanho variável, com um máximo "19".

Tabela 248 - DGI-0303 ICC PK Cert

DGI-0303 ICC PK Cert					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0303"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"
Len	Len AEF Data Template	1	H	M	"81XX"
Tag	Tag ICC Public Key Certificate	2	H	M	"9F46"
Len	Len ICC Public Key Certificate	1	H	M	"81XX"
Val	ICC Public Key Certificate	2	H	M	
Val	Application Currency Exponent	1	H	M	

Tabela 249 - DGI-0304 Static Authentication Data (Without Issuer PK Cert)

DGI-0304 Static Authentication Data (Without Issuer PK Cert)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"0304"
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	"70"

DGI-0304 Static Authentication Data (Without Issuer PK Cert)

	Nome	Dim	Form	Req	Conteúdo
Len	Len AEF Data Template	2	H	M	
Tag	Tag Certification Authority Public Key Index	1	H	M	“8F”
Len	Len Certification Authority Public Key Index	1	H	M	“01”
Val	Certification Authority Public Key Index (PKI)	1	H	M	
Tag	Tag Issuer PK Exponent	2	H	M	“9F32”
Len	Len Issuer PK Exponent	1	H	M	“01”
Val	Issuer PK Exponent	1	H	M	
Tag	Tag Issuer PK Remainder	1	H	O	“92”
Len	Len Issuer PK Remainder	1	H	O	“14”
Val	Issuer PK Remainder		H	O	

Tabela 250 - DGI-0305 Dynamic Authentication Data (Without ICC PK Cert)
DGI-0305 Dynamic Authentication Data (Without ICC PK Cert)

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0305”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder		H	O	
Tag	Tag DDOL	2	H	M	“9F49”
Len	Len DDOL	1	H	M	“03” “10”
Val	DDOL	3 16	H	M	“9F3704” “9F1A029F1C085F2A029A039C01 9F3704”

Tabela 251 - DGI-0306 Issuer PK Cert
DGI-0306 Issuer PK Cert

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0306”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”

DGI-0306 Issuer PK Cert

	Nome	Dim	Form	Req	Conteúdo
Len	Len AEF Data Template	2	H	M	“81XX”
Tag	Tag Issuer PK Certificate	1	H	M	“90”
Len	Len Issuer PK Certificate	2	H	M	“81XX”
Val	Issuer PK Certificate		H	M	

Tabela 252 - DGI-0401 Dynamic Authentication Data MasterCard Paypass
DGI-0401 Dynamic Authentication Data MasterCard Paypass

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0401”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	2	H	M	
Tag	Tag ICC PK Exponent	2	H	M	“9F47”
Len	Len ICC PK Exponent	1	H	M	“01”
Val	ICC PK Exponent	1	H	M	
Tag	Tag ICC PK Remainder	2	H	O	“9F48”
Len	Len ICC PK Remainder	1	H	O	“14”
Val	ICC PK Remainder	20	H	O	

Tabela 253 - DGI-0402 Dynamic Authentication Certificate MasterCard Paypass
DGI-0402 Dynamic Authentication Data MasterCard Paypass

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0402”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
		2			
Tag	Tag ICC PK Certificate	2	H	M	“9F46”
Len	Len ICC PK Certificate	1	H	M	“70”
		2			“8180”
		2			“8190”
Val	ICC PK Certificate	var	H	M	

Tabela 254 - DGI-0A01 Proprietary Tag Usage - GERAL; DGI-1501 Proprietary Tag Usage - GERAL

DGI-0A01 Proprietary Tag Usage - GERAL DGI-1501 Proprietary Tag Usage - GERAL					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A01” “1501”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Contas Associadas	2	H	M	“DF27”
Len	Len Contas Associadas	1	H	M	“08”
Val	Contas Associadas	8	H	M	
Tag	Tag Restrição Operações Cartão	2	H	M	“DF28”
Len	Len Restrição Operações Cartão	1	H	M	“10”
Val	Restrição Operações Cartão	16	H	M	
Tag	Tag Suporte Funcionalidades SEQPAN	2	H	M	“DF47”
Len	Len Suporte Funcionalidades SEQPAN	1	H	M	“01”
Val	Suporte Funcionalidades SEQPAN	1	H	M	
Tag	Tag Identificação Cliente	2	H	M	“DF49”
Len	Len Identificação Cliente	1	H	M	“0D”
Val	Sexo	1	H	M	
	Data de Nascimento	4	H	M	
	Código de Atividade	4	H	M	
	RFU	4	H	M	“00000000”

Tabela 255 - DGI-0A02 Proprietary Tag Usage - Linha de Crédito; DGI-1502 Proprietary Tag Usage - Linha de Crédito

DGI-0A02 Proprietary Tag Usage - Linha de Crédito DGI-1502 Proprietary Tag Usage - Linha de Crédito					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A02” “1502”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Linha de Crédito	2	H	M	“DF44”
Len	Len Funcionalidade Linha de Crédito	1	H	M	“28”
Val	Indicador de Funcionalidade Linha de Crédito	1	H	M	“00” “01”
	Montante Mínimo Aplicável	4	H	M	
	Nº Máximo de Prestações	1	H	M	

DGI-0A02 Proprietary Tag Usage - Linha de Crédito
DGI-1502 Proprietary Tag Usage - Linha de Crédito

	Nome	Dim	Form	Req	Conteúdo
	Valor Mínimo para a Prestação	4	H	M	
	Texto a apresentar no Pinpad	30	H	M	

Tabela 256 - DGI-0A03 Proprietary Tag Usage - Fidelização; DGI-1503 Proprietary Tag Usage - Fidelização
DGI-0A03 Proprietary Tag Usage - Fidelização
DGI-1503 Proprietary Tag Usage - Fidelização

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A03” “1503”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Fidelização	2	H	M	“DF45”
Len	Len Funcionalidade Fidelização	1	H	M	“22”
Val	Indicador de Funcionalidade Fidelização	1	H	M	“00” “01”
	Identificador do Programa de Fidelização	2	H	M	
	Indicador de Rebate de Pontos	1	H	M	“00” “01”
	Texto a apresentar no Pinpad	30	H	M	

Tabela 257 - DGI-0A04 Proprietary Tag Usage - Programa de Emissor; DGI-1504 Proprietary Tag Usage - Programa de Emissor
DGI-0A04 Proprietary Tag Usage - Programa de Emissor
DGI-1504 Proprietary Tag Usage - Programa de Emissor

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0A04” “1504”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Funcionalidade Programa de Emissor	2	H	M	“DF46”
Len	Len Funcionalidade Programa de Emissor	1	H	M	“03”
Val	Indicador de Funcionalidade Programa de Emissor	1	H	M	“00” “01”
	Identificador do Programa de Emissor	2	H	M	

Tabela 258 - DGI-0D01 (Internal) Card Risk Management Data VSDC

DGI-0D01 (Internal) Card Risk Management Data VSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit – Dual Currency	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit – Dual Currency	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit – Dual Currency	6	H	O	
Tag	Tag Currency Conversion Factor	2	H	O	“9F73”
Len	Len Currency Conversion Factor	1	H	O	“04”
Val	Currency Conversion Factor	4	H	O	
Tag	Tag Available Offline Spending Amount	2	H	M	“9F5D”
Len	Len Available Offline Spending Amount	1	H	M	“06”
Val	Available Offline Spending Amount	6	H	M	
Tag	Tag Consecutive Transaction Int Upper Limit	2	H	M	“9F5E”
Len	Len Consecutive Transaction Int Upper Limit	1	H	M	“01”
Val	Consecutive Transaction Int Upper Limit	1	H	M	

DGI-0D01 (Internal) Card Risk Management Data VSDC

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Log Format	2	H	M	“9F4F”
Len	Len Log Format	1	H	M	“0E”
Val	Log Format	14	H	M	“9F27019F02065F2A029A039F3602”

Tabela 259 - DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]
DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit – Dual Currency	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit – Dual Currency	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit – Dual Currency	6	H	O	
Tag	Tag Currency Conversion Factor	2	H	O	“9F73”
Len	Len Currency Conversion Factor	1	H	O	“04”

DGI-0D01 (Internal) Card Risk Management Data VSDC [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Currency Conversion Factor	4	H	O	

Tabela 260 - DGI-0D01 (Internal) Card Risk Management Data AMEX

DGI-0D01 (Internal) Card Risk Management Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“DF03”
Len	Len Application Default Action	1	H	M	“02”
Val	Application Default Action (ADA)	2	H	M	
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Upper Limit	2	H	M	“9F62”
Len	Len Cumulative Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Upper Limit	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F42”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Issuer Country Code	2	H	M	“5F28”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	

Tabela 261 - DGI-0D01 (Internal) Card Risk Management Data AMEX [SDA]

DGI-0D01 (Internal) Card Risk Management Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	

Tabela 262 - DGI-0D01 (Internal) Card Risk Management Data M/Chip [SDA]

DGI-0D01 (Internal) Card Risk Management Data M/Chip [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0D01”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Currency Conversion Table	2	H	O	“D1”

DGI-0D01 (Internal) Card Risk Management Data M/Chip [SDA]

	Nome	Dim	Form	Req	Conteúdo
Len	Len Currency Conversion Table	1	H	O	“05”
Val	Currency Conversion Table	5	H	O	

Tabela 263 - DGI-0E01 (Private) Card Risk Management Data VSDC
DGI-0E01 (Private) Card Risk Management Data VSDC

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action (ADA)	4	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	
Tag	Tag Geographic Indicator	2	H	M	“9F55”
Len	Len Geographic Indicator	1	H	M	“01”
Val	Geographic Indicator	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Secondary Application Currency Code	2	H	O	“9F76”
Len	Len Secondary Application Currency Code	1	H	O	“02”
Val	Secondary Application Currency Code	2	H	O	
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

Tabela 264 - DGI-0E01 (Private) Card Risk Management Data AMEX [SDA]
DGI-0E01 (Private) Card Risk Management Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“02”
Val	Application Default Action (ADA)	2	H	M	

DGI-0E01 (Private) Card Risk Management Data AMEX [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator (IAI)	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“0978”
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	

Tabela 265 - DGI-0E01 (Private) Card Risk Management Data M/CHIP [SDA]

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”
Val	CRM Currency Code	2	H	M	
Tag	Tag Card Issuer Action Code – Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code – Decline	1	H	M	“03”
Val	Card Issuer Action Code – Decline	3	H	M	
Tag	Tag Card Issuer Action Code – Default	1	H	M	“C4”
Len	Len Card Issuer Action Code – Default	1	H	M	“03”
Val	Card Issuer Action Code – Default	3	H	M	
Tag	Tag Card Issuer Action Code – Online	1	H	M	“C5”
Len	Len Card Issuer Action Code – Online	1	H	M	“03”
Val	Card Issuer Action Code – Online	3	H	M	

Tabela 266 - DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Track2EquivalentData (PayWave)	1	H	M	“57”

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Track2EquivalentData (PayWave)	1	H	M	“13”
Val	Track2EquivalentData (PayWave)	19	H	M	
Tag	Tag Cardholder Name (PayWave)	2	H	M	“5F20”
Len	Len Cardholder Name (PayWave)	1	H	M	“1A”
Val	Cardholder Name (PayWave)	26	H	M	
Tag	Tag Application Pan Sequence Number (PayWave)	2	H	M	“5F34”
Len	Len Application Pan Sequence Number (PayWave)	1	H	M	“01”
Val	Application Pan Sequence Number (PayWave)	1	H	M	
Tag	Tag Track1DiscretionaryData (PayWave)	2	H	M	“9F1F”
Len	Len Track1DiscretionaryData (PayWave)	1	H	M	“17” “18” “1A”
Val	Track1DiscretionaryData (PayWave)	23 24 26	H	M	
Tag	Tag Transaction Log Format (PayWave)	2	H	M	“9F4F”
Len	Len Transaction Log Format (PayWave)	1	H	M	“0E”
Val	Transaction Log Format (PayWave)	14	H	M	“9F27019F02065F2A029A039F3602”
Tag	Tag Application Currency Code (PayWave)	2	H	M	“9F51”
Len	Len Application Currency Code (PayWave)	1	H	M	“02”
Val	Application Currency Code (PayWave)	2	H	M	
Tag	Tag Application Default Action (PayWave)	2	H	M	“9F52”
Len	Len Application Default Action (PayWave)	1	H	M	“04”
Val	Application Default Action (PayWave)	4	H	M	
Tag	Tag Consecutive Transaction Limit – International (CTLI) (PayWave)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit – International (CTLI) (PayWave)	1	H	M	“01”
Val	Consecutive Transaction Limit – International (CTLI) (PayWave)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit (CTTAL) (PayWave)	6	H	M	
Tag	Tag Geographic Indicator (PayWave)	2	H	M	“9F55”
Len	Len Geographic Indicator (PayWave)	1	H	M	“01”
Val	Geographic Indicator (PayWave)	1	H	M	
Tag	Tag Issuer Authentication Indicator (PayWave)	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator (PayWave)	1	H	M	“01”

DGI-0E01 Card Private Data VISA PayWave qVSDC - PART 1					
	Nome	Dim	Form	Req	Conteúdo
Val	Issuer Authentication Indicator (PayWave)	1	H	M	
Tag	Tag Issuer Country Code (PayWave)	2	H	M	"9F57"
Len	Len Issuer Country Code (PayWave)	1	H	M	"02"
Val	Issuer Country Code (PayWave)	2	H	M	
Tag	Tag Lower Consecutive Offline Limit (PayWave)	2	H	M	"9F58"
Len	Len Lower Consecutive Offline Limit (PayWave)	1	H	M	"01"
Val	Lower Consecutive Offline Limit (PayWave)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit (PayWave)	2	H	M	"9F59"
Len	Len Upper Consecutive Offline Limit (PayWave)	1	H	M	"01"
Val	Upper Consecutive Offline Limit (PayWave)	1	H	M	
Tag	Tag (PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	2	H	M	"9F5C"
Len	Len (PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	1	H	M	"06"
Val	(PayWave-qVSDC Cumulative Total Transaction Amount Upper Limit (CTTAUL) (PayWave))	6	H	M	
Tag	Tag Available Offline Spending Amount (AOSA) (PayWave)	2	H	O	"9F5D"
Len	Len Available Offline Spending Amount (AOSA) (PayWave)	1	H	O	"06"
Val	Available Offline Spending Amount (AOSA) (PayWave)	6	H	O	
Tag	Tag Consecutive Transaction International Upper Limit (PayWave)	2	H	M	"9F5E"
Len	Len Consecutive Transaction International Upper Limit (PayWave)	1	H	M	"01"
Val	Consecutive Transaction International Upper Limit (PayWave)	1	H	M	
Tag	Tag Offline Counter Initial Value (PayWave)	2	H	M	"9F63"
Len	Len Offline Counter Initial Value (PayWave)	1	H	M	A)
Val	Offline Counter Initial Value (PayWave)	var	H	M	
Tag	Tag MSD Offset (PayWave-qVSDC)	2	H	M	"9F67"
Len	Len MSD Offset (PayWave-qVSDC)	1	H	M	"01"
Val	MSD Offset (PayWave-qVSDC)	1	H	M	
Tag	Tag Consecutive Transaction Limit (International Country) (PayWave)	2	H	M	"9F72"
Len	Len Consecutive Transaction Limit (International Country) (PayWave)	1	H	M	"01"
Val	Consecutive Transaction Limit (International Country) (PayWave)	1	H	M	
Tag	Tag Currency Conversion Factor (PayWave)	2	H	O	"9F73"
Len	Len Currency Conversion Factor (PayWave)	1	H	O	"04"

DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 1

	Nome	Dim	Form	Req	Conteúdo
Val	Currency Conversion Factor (PayWave)	4	H	O	
Tag	Tag Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	2	H	O	“9F75”
Len	Len Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	1	H	O	“06”
Val	Cumulative Total Transaction Amount Limit (Dual Currency) (PayWave)	6	H	O	
Tag	Tag Secondary Application Currency Code (PayWave)	2	H	O	“9F76”
Len	Len Secondary Application Currency Code (PayWave)	1	H	O	“02”
Val	Secondary Application Currency Code (PayWave)	2	H	O	

A) Tamanho variável, entre “00” e “01”.

Tabela 267 - DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 2
DGI-0E01 Card Private Data VISA PayWave QVSDC - PART 2

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“0E01”
Len DGI		1	H		
Tag	Tag Card Additional Processes (PayWave-qVSDC)	2	H	M	“9F68”
Len	Len Card Additional Processes (PayWave-qVSDC)	1	H	M	“04”
Val	Card Additional Processes (PayWave-qVSDC)	4	H	M	A)
Tag	Tag Card Transaction Qualifiers (PayWave-qVSDC)	2	H	M	“9F6C”
Len	Len Card Transaction Qualifiers (PayWave-qVSDC)	1	H	M	“02”
Val	Card Transaction Qualifiers (PayWave-qVSDC)	2	H	M	
Tag	Tag VLP Reset Threshold (PayWave-qVSDC)	2	H	M	“9F6D”
Len	Len VLP Reset Threshold (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Reset Threshold (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Funds Limit (PayWave-qVSDC)	2	H	M	“9F77”
Len	Len VLP Funds Limit (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Funds Limit (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Single Transaction Limit (PayWave-qVSDC)	2	H	M	“9F78”
Len	Len VLP Single Transaction Limit (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Single Transaction Limit (PayWave-qVSDC)	6	H	M	
Tag	Tag VLP Available Funds (PayWave-qVSDC)	2	H	M	“9F79”
Len	Len VLP Available Funds (PayWave-qVSDC)	1	H	M	“06”
Val	VLP Available Funds (PayWave-qVSDC)	6	H	M	

A) Valores possíveis:

- '4E00C000' - *Contactless* alto valor;
- '4E000000' - *Contactless* baixo valor;

Tabela 268 - DGI-2000 ICC Public Key

DGI-2000 ICC Public Key					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“2000”
Len DGI		1	H		
Val	ICC Public Key Modulus		H	M	
Val	ICC Public Key Remainder		H	M	

Tabela 269 - DGI-3000 Common Internal Data (Contact)

DGI-3000 Common Internal Data (Contact)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3000”
Len DGI		1	H		
Tag	Tag Application Transaction Counter (ATC)	1	H	M	“9F36”
Len	Len Application Transaction Counter (ATC)	1	H	M	“02”
Val	Application Transaction Counter (ATC)	2	H	M	“0000”
Tag	Tag Log Format	2	H	M	“9F4F”
Len	Len Log Format	1	H	M	var
Val	Log Format	var	H	M	

Tabela 270 - DGI-3000 Common Internal Data (Contactless)

DGI-3000 Common Internal Data (Contactless)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3000”
Len DGI		1	H		
Tag	Tag Application Transaction Counter (ATC)	1	H	M	“9F36”
Len	Len Application Transaction Counter (ATC)	1	H	M	“02”
Val	Application Transaction Counter (ATC)	2	H	M	“0000”
Tag	Tag Log Format	2	H	M	“9F4F”
Len	Len Log Format	1	H	M	var
Val	Log Format	var	H	M	

Tabela 271 - DGI-3001 Application Internal Data (Contact)

DGI-3001 Application Internal Data (Contact)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3001”
Len DGI		1	H		
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action	4	H	M	
Tag	Tag Consecutive Transaction Counter International Limit (CTCIL)	2	H	M	“9F53”
Len	Len Consecutive Transaction Counter International Limit (CTCIL)	1	H	M	“01”
Val	Consecutive Transaction Counter International Limit (CTCIL)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Limit (CTTAL)	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit (CTTAL)	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit (CTTAL)	6	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator	1	H	M	
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Consecutive Transaction Counter Limit (CTCL)	2	H	M	“9F58”
Len	Len Consecutive Transaction Counter Limit (CTCL)	1	H	M	“01”
Val	Consecutive Transaction Counter Limit (CTCL)	1	H	M	
Tag	Tag Consecutive Transaction Counter Upper Limit (CTCUL)	2	H	M	“9F59”
Len	Len Consecutive Transaction Counter Upper Limit (CTCUL)	1	H	M	“01”
Val	Consecutive Transaction Counter Upper Limit (CTCUL)	1	H	M	
Tag	Tag Cumulative Total Transaction Amount Upper Limit (CTTAUL)	2	H	M	“9F5C”
Len	Len Cumulative Total Transaction Amount Upper Limit (CTTAUL)	1	H	M	“06”
Val	Cumulative Total Transaction Amount Upper Limit (CTTAUL)	6	H	M	
Tag	Tag Available Offline Spending Amount (AOSA)	2	H	M	“9F5D”
Len	Len Available Offline Spending Amount (AOSA)	1	H	M	“01”
Val	Available Offline Spending Amount (AOSA)	1	H	M	

DGI-3001 Application Internal Data (Contact)					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Consecutive Transaction International Upper Limit (CTIUL)	2	H	M	"9F5E"
Len	Len Consecutive Transaction International Upper Limit (CTIUL)	1	H	M	"01"
Val	Consecutive Transaction International Upper Limit (CTIUL)	1	H	M	
Tag	Tag Consecutive Transaction Counter International Country Limit (CTCICL)	2	H	M	"9F72"
Len	Len Consecutive Transaction International Upper Limit (CTIUL)	1	H	M	"01"
Val	Consecutive Transaction International Upper Limit (CTIUL)	1	H	M	
Tag	Tag Currency Conversion Parameters	2	H	O	"9F73"
Len	Len Currency Conversion Parameters	1	H	O	"1E"
Val	Currency Conversion Parameters 1 (Conversion Currency Code)	2	H	O	
Val	Currency Conversion Parameters 1 (Currency Conversion Factor)	4	H	O	
Val	Currency Conversion Parameters 2 (Conversion Currency Code)	2	H	O	
Val	Currency Conversion Parameters 2 (Currency Conversion Factor)	4	H	O	
Val	Currency Conversion Parameters 3 (Conversion Currency Code)	2	H	O	
Val	Currency Conversion Parameters 3 (Currency Conversion Factor)	4	H	O	
Val	Currency Conversion Parameters 4 (Conversion Currency Code)	2	H	O	
Val	Currency Conversion Parameters 4 (Currency Conversion Factor)	4	H	O	
Val	Currency Conversion Parameters 5 (Conversion Currency Code)	2	H	O	
Val	Currency Conversion Parameters 5 (Currency Conversion Factor)	4	H	O	

Tabela 272 - DGI-3001 Application Internal Data (Contact without Offline Limits)

DGI-3001 Application Internal Data (Contact without Offline Limits)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"3001"
Len DGI		1	H		
Tag	Tag Application Currency Code	2	H	M	"9F51"
Len	Len Application Currency Code	1	H	M	"02"

DGI-3001 Application Internal Data (Contact without Offline Limits)					
	Nome	Dim	Form	Req	Conteúdo
Val	Application Currency Code	2	H	M	
Tag	Tag Application Default Action	2	H	M	"9F52"
Len	Len Application Default Action	1	H	M	"06"
Val	Application Default Action	6	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	"9F56"
Len	Len Issuer Authentication Indicator	1	H	M	"01"
Val	Issuer Authentication Indicator	1	H	M	
Tag	Tag Issuer Country Code	2	H	M	"9F57"
Len	Len Issuer Country Code	1	H	M	"02"
Val	Issuer Country Code	2	H	M	
Tag	Tag Available Offline Spending Amount (AOSA)	2	H	M	"9F5D"
Len	Len Available Offline Spending Amount (AOSA)	1	H	M	"01"
Val	Available Offline Spending Amount (AOSA)	1	H	M	
Tag	Tag Currency Conversion Parameters	2	H	O	"9F73"
Len	Len Currency Conversion Parameters	1	H	O	"1E"
Val	Currency Conversion Parameters 1 (Conversion Currency Code)	2	H	O	
Val	Currency Conversion Parameters 1 (Currency Conversion Factor)	4	H	O	

Tabela 273 - DGI-3001 Application Internal Data (Contactless)

DGI-3001 Application Internal Data (Contactless)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		"3001"
Len DGI		1	H		
Tag	Tag Track2EquivalentData	1	H	M	"57"
Len	Len Track2EquivalentData	1	H	M	"13"
Val	Track2EquivalentData	19	H	M	
Tag	Tag Cardholder Name	2	H	M	"5F20"
Len	Len Cardholder Name	1	H	M	"1A"
Val	Cardholder Name	26	H	M	
Tag	Tag Application Pan Sequence Number	2	H	M	"5F34"
Len	Len Application Pan Sequence Number	1	H	M	"01"
Val	Application Pan Sequence Number	1	H	M	
Tag	Tag Track1DiscretionaryData	2	H	M	"9F1F"
Len	Len Track1DiscretionaryData	1	H	M	"26" "23"
Val	Track1DiscretionaryData	38 35	H	M	

DGI-3001 Application Internal Data (Contactless)					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action	4	H	M	
Tag	Tag Issuer Authentication Indicator	2	H	M	“9F56”
Len	Len Issuer Authentication Indicator	1	H	M	“01”
Val	Issuer Authentication Indicator	1	H	M	
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	
Tag	Tag Available Offline Spending Amount (AOSA)	2	H	O	“9F5D”
Len	Len Available Offline Spending Amount (AOSA)	1	H	O	“01”
Val	Available Offline Spending Amount (AOSA)	1	H	O	
Tag	Tag Offline Counter Initial Value	2	H	M	“9F63”
Len	Len Offline Counter Initial Value	1	H	M	
Val	Offline Counter Initial Value	var	H	M	
Tag	Tag Card Additional Processes	2	H	M	“9F68”
Len	Len Card Additional Processes	1	H	M	“04”
Val	Card Additional Processes	4	H	M	A)
Tag	Tag Card CVM Limit	2	H	M	“9F6B”
Len	Len Card CVM Limit	1	H	M	“06”
Val	Card CVM Limit	6	H	M	
Tag	Tag Card Transaction Qualifiers	2		M	“9F6C”
Len	Len Card Transaction Qualifiers	1	H	M	“02”
Val	Card Transaction Qualifiers	2	H	M	
Tag	Tag VLP Reset Threshold	2	H	M	“9F6D”
Len	Len VLP Reset Threshold	1	H	M	“06”
Val	VLP Reset Threshold	6	H	M	“000000000000”
Tag	Tag Form Factor Indicator	2	H	M	“9F6E”
Len	Len Form Factor Indicator	1	H	M	“04”
Val	Form Factor Indicator	4	H	M	
Tag	Tag Currency Conversion Parameters	2	H	O	“9F73”
Len	Len Currency Conversion Parameters	1	H	O	“06”
Val	Currency Conversion Parameters (Conversion Currency Code)	2	H	O	
Val	Currency Conversion Parameters (Currency Conversion Factor)	4	H	O	

A) Valores possíveis:

- '4E00C000' - *Contactless* alto valor;
- '4E000000' - *Contactless* baixo valor;

Tabela 274 - DGI-3001 Application Internal Data (*Contactless* VISA Microtags)

DGI-3001 Application Internal Data (<i>Contactless</i> VISA Microtags)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“3001”
Len DGI		1	H		
Tag	Tag Track2EquivalentData	1	H	M	“57”
Len	Len Track2EquivalentData	1	H	M	“13”
Val	Track2EquivalentData	19	H	M	
Tag	Tag Cardholder Name	2	H	M	“5F20”
Len	Len Cardholder Name	1	H	M	“1A”
Val	Cardholder Name	26	H	M	
Tag	Tag Application Pan Sequence Number	2	H	M	“5F34”
Len	Len Application Pan Sequence Number	1	H	M	“01”
Val	Application Pan Sequence Number	1	H	M	
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	
Tag	Tag MSD Offset	2	H	M	“9F67”
Len	Len MSD Offset	1	H	M	“01”
Val	MSD Offset	1	H	M	
Tag	Tag Card Additional Processes	2	H	M	“9F68”
Len	Len Card Additional Processes	1	H	M	“04”
Val	Card Additional Processes	4	H	M	A)
Tag	Tag Card Transaction Qualifiers	2	H	M	“9F6C”
Len	Len Card Transaction Qualifiers	1	H	M	“02”
Val	Card Transaction Qualifiers	2	H	M	
Tag	Tag Form Factor Indicator	2	H	M	“9F6E”
Len	Len Form Factor Indicator	1	H	M	“04”
Val	Form Factor Indicator	4	H	M	

A) Valores possíveis:

- '4E00C000' - *Contactless* alto valor;
- '4E000000' - *Contactless* baixo valor.

Tabela 275 - DGI-300C (Internal) Card Risk Management Data DPA

DGI-300C (Internal) Card Risk Management Data DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300C”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F58”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	“FF”
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F59”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	“FF”
Tag	Tag Consecutive Transaction Limit (International)	2	H	M	“9F53”
Len	Len Consecutive Transaction Limit (International)	1	H	M	“01”
Val	Consecutive Transaction Limit (International)	1	H	M	“FF”
Tag	Tag Consecutive Transaction Limit (International-Country)	2	H	M	“9F72”
Len	Len Consecutive Transaction Limit (International-Country)	1	H	M	“01”
Val	Consecutive Transaction Limit (International-Country)	1	H	M	“FF”
Tag	Tag Cumulative Total Transaction Amount Limit	2	H	M	“9F54”
Len	Len Cumulative Total Transaction Amount Limit	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit	6	H	M	“999999999999”
Tag	Tag Cumul. Total Transaction Amount Upper Limit	2	H	M	“9F5C”
Len	Len Cumul. Total Transaction Amount Upper Limit	1	H	M	“06”
Val	Cumul. Total Transaction Amount Upper Limit	6	H	M	“999999999999”

Tabela 276 - DGI-300D (Internal) Card Risk Management Data CAP

DGI-300D (Internal) Card Risk Management Data CAP					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300D”
Len DGI		1	H		
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	“FF”
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”

DGI-300D (Internal) Card Risk Management Data CAP					
	Nome	Dim	Form	Req	Conteúdo
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	“FF”
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	“999999999999”
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	“999999999999”
Tag	Tag Currency Conversion Table	2	H	O	“D1”
Len	Len Currency Conversion Table	1	H	O	“05”
Val	Currency Conversion Table	5	H	O	“99 99 00 00 00 99 99 00 00 00 99 99 00 00 00 99 99 00 00 00 99 99 00 00 00”

Tabela 277 - DGI-300E (Private) Card Risk Management Data DPA

DGI-300E (Private) Card Risk Management Data DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300E”
Len DGI		1	H		
Tag	Tag Application Default Action	2	H	M	“9F52”
Len	Len Application Default Action	1	H	M	“04”
Val	Application Default Action (ADA)	4	H	M	“00000000”
Tag	Tag Application Currency Code	2	H	M	“9F51”
Len	Len Application Currency Code	1	H	M	“02”
Val	Application Currency Code	2	H	M	“9999”
Tag	Tag Issuer Country Code	2	H	M	“9F57”
Len	Len Issuer Country Code	1	H	M	“02”
Val	Issuer Country Code	2	H	M	“0620”

Tabela 278 - DGI-300F (Private) Card Risk Management Data CAP

DGI-300F (Private) Card Risk Management Data CAP					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“300F”
Len DGI		1	H		
Tag	Tag CRM Country Code	1	H	M	“C8”

DGI-300F (Private) Card Risk Management Data CAP

	Nome	Dim	Form	Req	Conteúdo
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	“0620”
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”
Val	CRM Currency Code	2	H	M	“9999”
Tag	Tag Card Issuer Action Code - Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code - Decline	1	H	M	“03”
Val	Card Issuer Action Code - Decline	3	H	M	“390000”
Tag	Tag Card Issuer Action Code - Default	1	H	M	“C4”
Len	Len Card Issuer Action Code - Default	1	H	M	“03”
Val	Card Issuer Action Code - Default	3	H	M	“000000”
Tag	Tag Card Issuer Action Code - Online	1	H	M	“C5”
Len	Len Card Issuer Action Code - Online	1	H	M	“03”
Val	Card Issuer Action Code - Online	3	H	M	“000000”

Tabela 279 - DGI-3212 Card Data CAP/DPA

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3212”
Len DGI		1	H		
Tag	Tag AEF Data Template	1	H	M	“70”
Len	Len AEF Data Template	1	H	M	
Tag	Tag Application Expiration Date	2	H	M	“5F24”
Len	Len Application Expiration Date	1	H	M	“03”
Val	Application Expiration Date	3	H	M	igual à aplic. pag.
Tag	Tag Personal Account Number	1	H	M	“5A”
Len	Len Personal Account Number	1	H	M	“07” “08”
Val	Personal Account Number (PAN)	7 8	H	M	igual à aplic. pag.
Tag	Tag Application PAN Seq Nbr	2	H	M	“5F34”
Len	Len Application PAN Seq Nbr	1	H	M	“01”
Val	Application PAN Seq Nbr (PAN Seq Nbr)	1	H	M	“00”
Tag	Tag Cardholder Verification Method List	1	H	M	“8E”
Len	Len Cardholder Verification Method List	1	H	M	A)
Val	Cardholder Verification Method List (CVM List)	var	H	M	“0100”
Tag	Tag Application Version Number	2	H	M	“9F08”

DGI-3212 Card Data CAP/DPA					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Version Number	1	H	M	"02"
Val	Application Version Number (AVN)	2	H	M	igual à aplic. pag.
Tag	Tag CDOL1	1	H	M	"8C"
Len	Len CDOL1	1	H	M	DPA - "15" CAP - "1E"
Val	CDOL1	21 30	H	M	igual à aplic. pag.
Tag	Tag CDOL2	1	H	M	"8D"
Len	Len CDOL2	1	H	M	DPA - "17" CAP - "06"
Val	CDOL2	23 6	H	M	igual à aplic. pag.
Tag	Tag IAF	2	H	M	"9F55"
Len	Len IAF	1	H	M	"01"
Val	IAF	1	H	M	"00"
Tag	Tag IPB	2	H	M	"9F56"
Len	Len IPB	1	H	M	B)
Val	IPB	var	H	M	

- A) Tamanho variável entre "0" e "60".
- B) Tamanho variável com máximo de "1D".

Tabela 280 - DGI-3F55 Contactless Counters Template - qVSDC

DGI-3F55 Contactless Counters Template - qVSDC					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		"3F55"
Len DGI		1	H		
Tag	Tag VLP Single Transaction Limit	2	H	M	"DF41"
Len	Len VLP Single Transaction Limit	1	H	M	"06"
Val	VLP Single Transaction Limit	6	H	M	
Tag	Tag VLP Available Funds	2	H	M	"DF51"
Len	Len VLP Available Funds	1	H	M	"06"
Val	VLP Available Funds	6	H	M	
Tag	Tag VLP Reset Threshold	2	H	M	"DF61"
Len	Len VLP Reset Threshold	1	H	M	"06"
Val	VLP Reset Threshold	6	H	M	
Tag	Tag VLP Funds Limit	2	H	M	"DF71"
Len	Len VLP Funds Limit	1	H	M	"06"
Val	VLP Funds Limit	6	H	M	

Tabela 281 - DGI-3F56 Counters Template - VIS

DGI-3F56 Counters Template - VIS					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“3F56”
Len DGI		1	H		
Tag	Tag Consecutive Transaction Counter (CTC)	2	H	M	“DF11”
Len	Len Consecutive Transaction Counter (CTC)	1	H	M	“01”
Val	Consecutive Transaction Counter (CTC)	1	H	M	“00”
Tag	Tag Consecutive Transaction Counter Limit (CTCL)	2	H	M	“DF21”
Len	Len Consecutive Transaction Counter Limit (CTCL)	1	H	M	“01”
Val	Consecutive Transaction Counter Limit (CTCL)	1	H	M	
Tag	Tag Consecutive Transaction Counter Upper Limit (CTCUL)	2	H	M	“DF31”
Len	Len Consecutive Transaction Counter Upper Limit (CTCUL)	1	H	M	“01”
Val	Consecutive Transaction Counter Upper Limit (CTCUL)	1	H	M	

Tabela 282 - DGI-3F57 International Counters Template – VIS, qVSDC

DGI-3F57 International Counters Template – VIS, qVSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3F57”
Len DGI		1	H		
Tag	Tag Consecutive Transaction Counter International (CTCI)	2	H	M	“DF11”
Len	Len Consecutive Transaction Counter International (CTCI)	1	H	M	“01”
Val	Consecutive Transaction Counter International (CTCI)	1	H	M	Counter Inicializado com o valor da tag DF31 (CTIUL)
Tag	Tag Consecutive Transaction Counter International Limit (CTCIL)	2	H	M	“DF21”
Len	Len Consecutive Transaction Counter International Limit (CTCIL)	1	H	M	“01”
Val	Consecutive Transaction Counter International Limit (CTCIL)	1	H	M	
Tag	Tag Consecutive Transaction International Upper Limit (CTIUL)	2	H	M	“DF31”
Len	Len Consecutive Transaction International Upper Limit (CTIUL)	1	H	M	“01”

DGI-3F57 International Counters Template – VIS, qVSDC					
	Nome	Dim	Form	Req	Conteúdo
Val	Consecutive Transaction International Upper Limit (CTIUL)	1	H	M	
Tag	Tag Consecutive Transaction Counter International Country (CTCIC)	2	H	M	“DF51”
Len	Len Consecutive Transaction Counter International Country (CTCIC)	1	H	M	“01”
Val	Consecutive Transaction Counter International Country (CTCIC)	1	H	M	“00”
Tag	Tag Consecutive Transaction Counter International Country Limit (CTCICL)	2	H	M	“DF61”
Len	Len Consecutive Transaction Counter International Country Limit (CTCICL)	1	H	M	“01”
Val	Consecutive Transaction Counter International Country Limit (CTCICL)	1	H	M	

Tabela 283 - DGI-3F58 Amounts Data Template – VIS, qVSDC

DGI-3F58 Amounts Data Template – VIS, qVSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3F58”
Len DGI		1	H		
Tag	Tag Cumulative Total Transaction Amount (CTTA)	2	H	M	“DF11”
Len	Len Cumulative Total Transaction Amount (CTTA)	1	H	M	“06”
Val	Cumulative Total Transaction Amount (CTTA)	6	H	M	“000000000000”
Tag	Tag Cumulative Total Transaction Amount Limit (CTTAL)	2	H	M	“DF21”
Len	Len Cumulative Total Transaction Amount Limit (CTTAL)	1	H	M	“06”
Val	Cumulative Total Transaction Amount Limit (CTTAL)	6	H	M	
Tag	Tag Cumulative Total Transaction Amount Upper Limit (CTTAUL)	2	H	M	“DF31”
Len	Len Cumulative Total Transaction Amount Upper Limit (CTTAUL)	1	H	M	“06”
Val	Cumulative Total Transaction Amount Upper Limit (CTTAUL)	6	H	M	

Tabela 284 - DGI-3F5B Application Internal Data Template - VIS, qVSDC, MSD

DGI-3F5B Application Internal Data Template – VIS, qVSDC, MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“3F5B”
Len DGI		1	H		
Tag	Tag Application Capabilities	2	H	M	“DF01”
Len	Len Application Capabilities	1	H	M	“02”
Val	Application Capabilities	2	H	M	“4000”

Nota: esta DGI está incluída para prever a sua utilização em versões futuras da especificação VIS, mas na VIS versão 1.5 não necessita de ser gravada no *chip*.

Tabela 285 - DGI-8000 DES UDK keys

DGI-8000 DES UDK keys					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8000”
Len DGI		1	H		
Val	Unique DEA Key A (UDK A)	8	H	M	
Val	Unique DEA Key B (UDK B)	8	H	M	
Val	Message Authentication Code DEA Key A (UDK MAC A)	8	H	M	
Val	Message Authentication Code DEA Key B (UDK MAC B)	8	H	M	
Val	Data Encipherment DEA Key A (UDK ENC A)	8	H	M	
Val	Data Encipherment DEA Key B (UDK ENC B)	8	H	M	

Tabela 286 - DGI-8001 Alternate DES UDK Key for MSD

DGI-8001 Alternate DES UDK Key for MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8001”
Len DGI		1	H		
Val	Unique DEA Key A for MSD (UDK A MSD) Used in the dCVV calculation	8	H	M	

DGI-8001 Alternate DES UDK Key for MSD					
	Nome	Dim	Form	Req	Conteúdo
Val	Unique DEA Key B for MSD (UDK B MSD) Used in the dCVV calculation	8	H	M	

Tabela 287 - DGI-8001 DES UDK Keys Contactless

DGI-8001 DES UDK Keys Contactless					
	Nome	Dim	Form	Req	Conteúdo
		2	H		"8001"
		1	H		
	Unique DEA Key A (UDK A) Contactless	8	H	M	= DGI-8000
	Unique DEA Key B (UDK B) Contactless	8	H	M	= DGI-8000
	Message AC DEA Key A (UDK MAC A) Contactless	8	H	M	= DGI-8000
	Message AC DEA Key B (UDK MAC B) Contactless	8	H	M	= DGI-8000
	Data Encipherment DEA Key A (UDK ENC A) Contactless	8	H	M	= DGI-8000
	Data Encipherment DEA Key B (UDK ENC B)	8	H	M	= DGI-8000
	Contactless				

Tabela 288 - DGI-8010 Offline PIN

DGI-8010 Offline PIN					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"8010"
Len DGI		1	H		
Val	Reference PIN	8	H	M	Formato ISO 03

NOTA: Assume-se que esta DGI está sempre presente, mas o PIN Offline só será escrito no chip, se houver entre as várias aplicações, pelo menos uma CVM List que contenha o CVM Offline PIN. Caso contrário não será escrito.

Tabela 289 - DGI-8101 ICC Private Key (DDA / ICC PIN Encipherment) Exponent

DGI-8101 ICC Private Key (DDA / ICC PIN Encipherment) Exponent					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"8101"
Len DGI		1	H		
Val	ICC Private Key (DDA / ICC PIN Encipherment) Exponent	var	H	M	A)

- A) Pode ser preenchido com zeros.

Tabela 290 - DGI-8102 ICC Private Key (ICC PIN Encipherment) Exponent

DGI-8102 ICC Private Key (ICC PIN Encipherment) Exponent					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8102”
Len DGI		1	H		
Val	ICC Private Key (ICC PIN Encipherment) Exponent		H	M	

Tabela 291 - DGI-8103 ICC Private Key (DDA / ICC PIN Encipherment) Modulus

DGI-8103 ICC Private Key (DDA / ICC PIN Encipherment) MODULUS					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8103”
Len DGI		1	H		
Val	ICC Private Key (DDA / ICC PIN Encipherment) Modulus	var	H	M	A)

A) Pode ser preenchido com zeros.

Tabela 292 - DGI-8104 ICC Private Key (ICC PIN Encipherment) Modulus

DGI-8104 ICC Private Key (ICC PIN Encipherment) Modulus					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8104”
Len DGI		1	H		
Val	ICC Private Key (ICC PIN Encipherment) Modulus		H	M	

Tabela 293 - DGI-8201 ICC Private key crt constant Q-1 mod p

DGI-8201 ICC Private key crt constant Q-1 mod p					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8201”
Len DGI		1	H		
Val	ICC Private Key CRT constant q-1 mod p		H	M	

Tabela 294 - DGI-8202 ICC Private key crt constant D mod (Q-1)

DGI-8202 ICC Private key crt constant D mod (Q-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8202”
Len DGI		1	H		

DGI-8202 ICC Private key crt constant D mod (Q-1)

	Nome	Dim	Form	Req	Conteúdo
Val	ICC Private Key CRT constant d mod (q-1)		H	M	

Tabela 295 - DGI-8203 ICC Private key crt constant D mod (p-1)

DGI-8203 ICC Private key crt constant D mod (p-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8203”
Len DGI		1	H		
Val	ICC Private Key CRT constant d mod (p-1)		H	M	

Tabela 296 - DGI-8204 ICC Private key crt constant Prime Factor Q

DGI-8204 ICC PRIVATE key crt constant PRIME FACTOR Q					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8204”
Len DGI		1	H		
Val	ICC Private Key CRT constant prime factor q		H	M	

Tabela 297 - DGI-8205 ICC Private key crt constant Prime Factor P

DGI-8205 ICC Private key crt constant Prime Factor P					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8205”
Len DGI		1	H		
Val	ICC Private Key CRT constant prime factor p		H	M	

Tabela 298 - DGI-8301 ICC PIN Encipherment Private key crt constant Q-1 mod p

DGI-8301 ICC PIN Encipherment Private key crt constant Q-1 mod p					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8301”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant q-1 mod p		H	M	

Tabela 299 - DGI-8302 ICC PIN Encipherment Private key crt constant D mod (Q-1)

DGI-8302 ICC PIN ENCIPHERMENT PRIVATE key crt constant D mod (Q-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8302”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant d mod (q-1)		H	M	

Tabela 300 - DGI-8303 ICC PIN Encipherment Private key crt constant D mod (p-1)

DGI-8303 ICC PIN Encipherment Private key crt constant D mod (p-1)					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8303”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant d mod (p-1)		H	M	

Tabela 301 - DGI-8304 ICC PIN Encipherment Private key crt constant Prime Factor Q

DGI-8304 ICC PIN ENCIPHERMENT PRIVATE key crt constant PRIME FACTOR Q					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8304”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant prime factor q		H	M	

Tabela 302 - DGI-8305 ICC PIN Encipherment Private key crt constant Prime Factor P

DGI-8305 ICC PIN ENCIPHERMENT PRIVATE key crt constant PRIME FACTOR P					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8305”
Len DGI		1	H		
Val	ICC PIN Encipherment Private Key CRT constant prime factor p		H	M	

Tabela 303 - DGI-8400 DES CVC3 Keys

DGI-8400 DES CVC3 Keys					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8400”
Len DGI		1	H		

DGI-8400 DES CVC3 Keys

	Nome	Dim	Form	Req	Conteúdo
Val	CVC3 Generation Key A (KD_CVC3 A)	8	H	M	
Val	CVC3 Generation Key B (KD_CVC3 B)	8	H	M	

Tabela 304 - DGI-8401 DES CVC3 Keys M/Chip Advance Contactless

DGI-8401 DES CVC3 Keys M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“8401”
Len DGI		1	H		
Val	CVC3 Generation Key A (KD_CVC3 A) Contactless	8	H	M	= DGI-8400
Val	CVC3 Generation Key B (KD_CVC3 B) Contactless	8	H	M	= DGI-8400

Tabela 305 - DGI-9000 DES Key Check Values

DGI-9000 DES Key Check Values					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9000”
Len DGI		1	H		
Val	Key Check Value for UDK Keys	3	H	M	
Val	Key Check Value for UDK MAC Keys	3	H	M	
Val	Key Check Value for UDK ENC Keys	3	H	M	

Tabela 306 - DGI-9001 DES Key Check Values CVC3

DGI-9001 DES Key Check Values CVC3					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9001”
Len DGI		1	H		
Val	Key Check Value for CVC3 Key	3	H	M	

Tabela 307 - DGI-9010 Offline PIN Data

DGI-9010 Offline PIN Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9010”
Len DGI		1	H		
Tag	Tag PIN Try Counter	2	H	M	“9F17”

DGI-9010 Offline PIN Data					
	Nome	Dim	Form	Req	Conteúdo
Len	Len PIN Try Counter	1	H	M	“02”
Val	PIN Try Counter	1	H	M	
Val	PIN Try Limit	1	H	M	“03”

NOTA: Assume-se que esta DGI está sempre presente, mas o PIN *Offline* só é escrito no *chip*, se houver entre as várias aplicações, pelo menos uma CVM *List* que contenha o CVM *Offline* PIN. Caso contrário não é escrito.

Tabela 308 - DGI-9010 *Offline PIN Data sem tags*

DGI-9010 Offline PIN Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9010”
Len DGI		1	H		
Val	PIN Try Counter	1	H	M	
Val	PIN Try Limit	1	H	M	“03”

NOTA: Assume-se que esta DGI está sempre presente, mas o PIN *Offline* só é escrito no *chip*, se houver entre as várias aplicações, pelo menos uma CVM *List* que contenha o CVM *Offline* PIN. Caso contrário não é escrito.

Tabela 309 - DGI-9102 PSE - *Select PSE Response Data*

DGI-9102 PSE - Select PSE Response Data					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1	H	M	
Tag	Tag SFI Directory Elementary File	1	H	M	“88”
Len	Len SFI Directory Elementary File	1	H	M	“01”
Val	SFI Directory Elementary File	1	H	M	“01”
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”

DGI-9102 PSE - Select PSE Response Data					
	Nome	Dim	Form	Req	Conteúdo
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	

Tabela 310 - DGI-9102 PPSE - Select PPSE Response Data

DGI-9102 PPSE - Select PPSE Response Data					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Directory Entry Template	1	H	M	“61”
Len	Len Directory Entry Template	1	H	M	
Tag	Tag Application Identifier	1	H	M	“4F”
Len	Len Application Identifier	1	H	M	
Val	Application Identifier		H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	
Val	Application Label		H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	“01”
Tag	Tag Kernel Identifier	2	H	M	“9F2A”
Len	Len Kernel Identifier	1	H	M	“01”
Val	Kernel Identifier	1	H	M	“03”
Tag	Tag Contactless Capabilities Template	2	H	M	“BF63”
Len	Len Contactless Capabilities Template	1	H	M	“04”
Tag	Tag Contactless Capabilities	2	H	M	“DF20”

DGI-9102 PPSE - Select PPSE Response Data

	Nome	Dim	Form	Req	Conteúdo
Len	Len Contactless Capabilities	1	H	M	“01”
Val	Contactless Capabilities	1	H	M	“80”

Tabela 311 - DGI-9102 PPSE - Select PPSE Response Data M/Chip Advance
DGI-9102 PPSE - Select PPSE Response Data M/Chip Advance

	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Directory Entry Template	1	H	M	“61”
Len	Len Directory Entry Template	1	H	M	
Tag	Tag Application Identifier	1	H	M	“4F”
Len	Len Application Identifier	1	H	M	
Val	Application Identifier		H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	
Val	Application Label		H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	“01”
Tag	Tag Kernel Identifier	2	H	M	“9F2A”
Len	Len Kernel Identifier	1	H	M	“01”
Val	Kernel Identifier	1	H	M	“02”

Tabela 312 – DGI-9102 - Select Response Data M/Chip Advance
DGI-9102 Select Response Data M/Chip Advance

	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1	H	M	
		2			
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	

DGI-9102 Select Response Data M/Chip Advance

	Nome	Dim	Form	Req	Conteúdo
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index		H	M	
Tag	Tag Application preferred Name	2	H	M	“9F12”
Len	Len Application preferred Name	1	H	M	“10”
Val	Application preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	“0620”
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry				“0B0A”
Tag	Tag Third Party Data	2	H	M	“9F6E”
Len	Len Third Party Data	1	H	M	“07”
Val	Third Party Data	7	H	M	

Tabela 313 - DGI-9102 Select Response Data VSDC
DGI-9102 Select Response Data VSDC

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”

DGI-9102 Select Response Data VSDC					
	Nome	Dim	Form	Req	Conteúdo
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	O	“9F38”
Len	Len PDOL	1	H	O	A)
Val	PDOL	var	H	O	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”

A) Tamanho variável, com um máximo “0E”.

Tabela 314 - DGI-9102 Select Response Data VSDC VIS 1.5.4

DGI-9102 Select Response Data VSDC VIS 1.5.4					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”

Tabela 315 - DGI-9102 Select Response Data (Contactless VISA Microtags)

DGI-9102 Select Response Data (Contactless VISA Microtags)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	O	“9F38”
Len	Len PDOL	1	H	O	
Val	PDOL	var	H	O	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Application Program ID	2	H	M	“9F5A”
Len	Len Application Program ID	1	H	M	
Val	Application Program ID		H	M	
Tag	Tag Contactless Capabilities Template	2	H	M	“BF63”
Len	Len Contactless Capabilities Template	1	H	M	
Tag	Tag Contactless Capabilities	2	H	M	“DF20”
Len	Len Contactless Capabilities	1	H	M	“01”
Val	Contactless Capabilities	1	H	M	

Tabela 316 - DGI-9102 Select Response Data VSDC [SDA]

DGI-9102 Select Response Data VSDC [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	B)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	O	“9F38”
Len	Len PDOL	1	H	O	A)
Val	PDOL	var	H	O	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”

DGI-9102 Select Response Data VSDC [SDA]

	Nome	Dim	Form	Req	Conteúdo
Val	Client Fee Inhibition	1	H	O	“00” “01”

- A) Tamanho variável, com um máximo “0E”;
- B) Tamanho variável entre “05” e “10”.

Tabela 317 - DGI-9102 Select Response Data M/Chip
DGI-9102 Select Response Data M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”

DGI-9102 Select Response Data M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	“0620”
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

A) Tamanho variável entre “05” e “10”.

Tabela 318 - DGI-9102 Select Response Data M/Chip [SDA]

DGI-9102 Select Response Data M/Chip [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	

DGI-9102 Select Response Data M/Chip [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	“0620”
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”

- A) Tamanho variável entre “05” e “10”.

Tabela 319 - DGI-9102 Select Response Data CAP/DPA

DGI-9102 Select Response Data CAP/DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H	M	“9102”
Len DGI		1	H	M	
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	DPA: “56495341204155542020202020202020” (VISA AUT) CAP: “4D415354455243415244204155542020” (MASTERCARD AUT)
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“04”
Val	Language Preference	4	H	M	”7074656E” (pten)
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	”01”

- A) Tamanho variável entre “05” e “10”.

Tabela 320 - DGI-9102 Select Response Data AMEX

DGI-9102 Select Response Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	

Tabela 321 - DGI-9102 Select Response Data AMEX [SDA]

DGI-9102 Select Response Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9102”
Len DGI		1	H		

DGI-9102 Select Response Data AMEX [SDA]					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	

A) Tamanho variável entre “05” e “10”.

Tabela 322 - DGI-9103 Select Response Data VISA Paywave

DGI-9103 Select Response Data VISA Paywave.					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9103”
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	“6F”
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	B)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	M	“9F38”
Len	Len PDOL	1	H	M	A)
Val	PDOL	var	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”

DGI-9103 Select Response Data VISA Paywave.

	Nome	Dim	Form	Req	Conteúdo
Val	Client Fee Inhibition	1	H	O	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”

- A) Tamanho variável, com um máximo “0E”.
- B) Tamanho variável entre “05” e “10”.

Tabela 323 - DGI-9103 Select Response Data VISA Paywave VCPS 2.1.2
DGI-9103 Select Response Data VISA Paywave VCPS 2.1.2

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9103”
Len DGI		1	H		
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	“10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag PDOL	2	H	M	“9F38”
Len	Len PDOL	1	H	M	
Val	PDOL	var	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	O	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	O	

DGI-9103 Select Response Data VISA Paywave VCPS 2.1.2

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Proprietary Issuer Country Code	2	H	O	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	O	“02”
Val	Proprietary Issuer Country Code	2	H	O	
Tag	Tag Client Fee Inhibition	2	H	O	“DF40”
Len	Len Client Fee Inhibition	1	H	O	“01”
Val	Client Fee Inhibition	1	H	O	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	2	H	M	“0C0A”
Tag	Tag Application program ID	2	H	M	“9F5A”
Len	Len Application program ID	1	H	M	“05”
Val	Application program ID	5	H	M	“3109780620”

Tabela 324 - DGI-9104 Get Processing Options Response Data
DGI-9104 Get Processing Options Response Data

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	Contact-Only MasterCard/Maestro DDA: 08010200 10010201 18010200 A8010400 Paypass MasterCard/Maestro DDA-DDA: 08020300 10020301 18030400 A8010400 Paywave VISA/Electron DDA-DDA: 08020300 10010300

DGI-9104 Get Processing Options Response Data

	Nome	Dim	Form	Req	Conteúdo
					10060600 18010201 50010400 Contact-Only VISA/Electron VIS 1.5.4 08010200 10010400 18010201 50010400 Contact-Only VISA/Electron VIS 1.4.1 08010200 10010200 18010201 50010400 Contact-Only MasterCard/Maestro (M/Chip Advance): “08010200 10020301 18030600 A8010400” Contact-Mode MasterCard/Maestro (Paypass M/Chip Advance): “08020300 10020301 18030600 A8010400” Contactless-Mode MasterCard/Maestro (Paypass M/Chip Advance): “08010100 10010101 18010200 20010200”

A) Tamanho variável, com um máximo de “20”.

Tabela 325 - DGI-9104 Get Processing Options Response Data CAP/DPA

DGI-9104 Get Processing Options Response Data CAP/DPA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”

DGI-9104 Get Processing Options Response Data CAP/DPA					
	Nome	Dim	Form	Req	Conteúdo
Val	Application Interchange Profile (AIP)	2	H	M	“1000”
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	

A) Tamanho variável entre “0” e “20”.

Tabela 326 - DGI-9104 Get Processing Options Response Data AMEX

DGI-9104 Get Processing Options Response Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9104”
Len DGI		1	H		
Tag	Tag Application Interchange Profile	1	H	M	“82”
Len	Len Application Interchange Profile	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	“5C00” “3800” DDA
Tag	Tag Application File Locator	1	H	M	“94”
Len	Len Application File Locator	1	H	M	A)
Val	Application File Locator (AFL)	var	H	M	AMEX: “0801020008030301” (MB-AMEX): “080102000803030150010100” AMEX DDA: “080102000803030108040500” (MB-AMEX) DDA: “08010200080303010804050050010100”

A) Tamanho variável entre “0” e “20”.

Tabela 327 - DGI-9115 qVSDC GPO Response (*Online Decline without ODA*)

DGI-9115 qVSDC GPO Response (<i>Online Decline without ODA</i>)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		“9115”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (AIP)	1	H	M	“82”
Len	Len Application Interchange Profile (AIP)	1	H	M	“02”
Val	Application Interchange Profile (AIP)	2	H	M	
Tag	Tag Application File Locator (AFL)	1	H	M	“94”
Len	Len Application File Locator (AFL)	1	H	M	“04” a “20”

DGI-9115 qVSDC GPO Response (Online Decline without ODA)

	Nome	Dim	Form	Req	Conteúdo
Val	Application File Locator (AFL)	4 a 32	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	"57"
Len	Len Track 2 Equivalent Data	1	H	M	"13"
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Cardholder Name	2	H	M	"5F20"
Len	Len Cardholder Name	1	H	M	"1A"
Val	Cardholder Name	26	H	M	
Tag	Tag Issuer Application data (IAD)	2	H	M	"9F10"
Len	Len Issuer Application data (IAD)	1	H	M	"07"
Val	Issuer Application data (IAD)	26	H	M	
Tag	Tag Application Cryptogram	2	H	M	"9F26"
Len	Len Application Cryptogram	1	H	M	"08"
Tag	Tag Cryptogram Information Data (CID)	2	H	M	"9F27"
Len	Len Cryptogram Information Data (CID)	1	H	M	"01"
Tag	Tag Application Transaction Counter (ATC)	2	H	M	"9F36"
Len	Len Application Transaction Counter (ATC)	1	H	M	"02"
Tag	Tag Card Transaction Qualifiers (CTC)	2	H	M	"9F6C"
Len	Len Card Transaction Qualifiers (CTC)	1	H	M	"02"
Val	Card Transaction Qualifiers (CTC)	2	H	M	

Tabela 328 - DGI-9116 qVSDC GPO Response (Offline with ODA)

DGI-9116 qVSDC GPO Response (Offline with ODA)					
	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		"9116"
Len DGI		1	H		
Tag	Tag Application Interchange Profile (AIP)	1	H	M	"82"
Len	Len Application Interchange Profile (AIP)	1	H	M	"02"
Val	Application Interchange Profile (AIP)	2	H	M	
Tag	Tag Application File Locator (AFL)	1	H	M	"94"
Len	Len Application File Locator (AFL)	1	H	M	"04" a "20"
Val	Application File Locator (AFL)	4 a 32	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	"57"
Len	Len Track 2 Equivalent Data	1	H	M	"13"
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Issuer Application data (IAD)	2	H	M	"9F10"
Len	Len Issuer Application data (IAD)	1	H	M	"07"
Val	Issuer Application data (IAD)	7	H	M	
Tag	Tag Application Cryptogram	2	H	M	"9F26"

DGI-9116 qVSDC GPO Response (Offline with ODA)

	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Cryptogram	1	H	M	"08"
Tag	Tag Cryptogram Information Data (CID)	2	H	M	"9F27"
Len	Len Cryptogram Information Data (CID)	1	H	M	"01"
Tag	Tag Application Transaction Counter (ATC)	2	H	M	"9F36"
Len	Len Application Transaction Counter (ATC)	1	H	M	"02"
Tag	Tag Signed Dynamic Application Data	2	H	M	"9F4B"
Len	Len Signed Dynamic Application Data	1	H	M	A)
Tag	Tag Card Transaction Qualifiers (CTC)	2	H	M	"9F6C"
Len	Len Card Transaction Qualifiers (CTC)	1	H	M	"02"
Val	Card Transaction Qualifiers (CTC)	2	H	M	

A) N_{IC} (comprimento da ICC Private Key). Ex.: "8180" para uma chave de 1024 bits.

Tabela 329 - DGI-9117 qVSDC GPO Response (Online with ODA)

	Nome	Dim	Form	Req	Conteúdo
Tan DGI		2	H		"9117"
Len DGI		1	H		
Tag	Tag Application Interchange Profile (AIP)	1	H	M	"82"
Len	Len Application Interchange Profile (AIP)	1	H	M	"02"
Val	Application Interchange Profile (AIP)	2	H	M	
Tag	Tag Application File Locator (AFL)	1	H	M	"94"
Len	Len Application File Locator (AFL)	1	H	M	"04" a "20"
Val	Application File Locator (AFL)	4 a 32	H	M	
Tag	Tag Track 2 Equivalent Data	1	H	M	"57"
Len	Len Track 2 Equivalent Data	1	H	M	"13"
Val	Track 2 Equivalent Data	19	H	M	
Tag	Tag Issuer Application data (IAD)	2	H	M	"9F10"
Len	Len Issuer Application data (IAD)	1	H	M	"07"
Val	Issuer Application data (IAD)	7	H	M	
Tag	Tag Application Cryptogram	2	H	M	"9F26"
Len	Len Application Cryptogram	1	H	M	"08"
Tag	Tag Cryptogram Information Data (CID)	2	H	M	"9F27"
Len	Len Cryptogram Information Data (CID)	1	H	M	"01"
Tag	Tag Application Transaction Counter (ATC)	2	H	M	"9F36"
Len	Len Application Transaction Counter (ATC)	1	H	M	"02"
Tag	Tag Signed Dynamic Application Data	2	H	M	"9F4B"
Len	Len Signed Dynamic Application Data	1	H	M	A)
Tag	Tag Card Transaction Qualifiers (CTC)	2	H	M	"9F6C"

DGI-9117 qVSDC GPO Response (Online with ODA)

	Nome	Dim	Form	Req	Conteúdo
Len	Len Card Transaction Qualifiers (CTC)	1	H	M	“02”
Val	Card Transaction Qualifiers (CTC)	2	H	M	

A) N_{IC} (comprimento da ICC Private Key). Ex.: “8180” para uma chave de 1024 bits.

Tabela 330 - DGI-9200 Generate AC Response Data VISA

DGI-9200 Generate AC Response Data VISA					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“07”
Val	IAD Len Indicator	1	H	M	“06”
	Derivation Key Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	
	CVR Len Indicator	1	H	M	“03”
	Card Verification Results (CVR)	3	H	M	“000000”

Nota: A DGI 9200 da aplicação DPA pode ser obtida a partir desta, substituindo o *Cryptogram Version Number* da tag 9F10 por ‘0A’ hexadecimal, e mantendo tudo o resto igual.

Tabela 331 - DGI-9200 Generate AC Response Data MasterCard

DGI-9200 GENERATE AC Response Data MASTERCARD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“02”
Val	Key Derivation Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	

Tabela 332 - DGI-9200 Generate AC Response Data AMEX

DGI-9200 GENERATE AC Response Data AMEX					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9200”
Len DGI		1	H		
Tag	Tag Issuer Application Data	2	H	M	“9F10”
Len	Len Issuer Application Data	1	H	M	“06”
Val	Derivation Key Index (DKI)	1	H	M	
	Cryptogram Version Number (CVN)	1	H	M	
	CVR Len Indicator	1	H	M	“03”
	Card Verification Results (CVR)	3	H	M	“000000”

Tabela 333 - DGI-9206 Get Processing Options VISA PayWave MSD

DGI-9206 Get Processing Options VISA PayWave MSD					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9206”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayWave -MSD)	1	H	M	“82”
Len	Len Application Interchange Profile (PayWave-MSD)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayWave-MSD)	2	H	M	“0080”
Tag	Tag Application File Locator (PayWave-MSD)	1	H	M	“94”
Len	Len Application File Locator (PayWave-MSD)	1	H	M	A)
Val	Application File Locator (AFL) (PayWave-MSD)	var	H	M	“08010100”

A) Tamanho variável entre “0” e “20”.

Tabela 334 - DGI-9207 Get Processing Options VISA PayWave QVSDC

DGI-9207 Get Processing Options VISA PayWave QVSDC					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“9207”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayWave-qVSDC)	1	H	M	“82”
Len	Len Application Interchange Profile (PayWave-qVSDC)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayWave-qVSDC)	2	H	M	“2000”

DGI-9207 Get Processing Options VISA PayWave qVSDC

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Application File Locator (PayWave-qVSDC)	1	H	M	"94"
Len	Len Application File Locator (PayWave-qVSDC)	1	H	M	A)
Val	Application File Locator (AFL) (PayWave-qVSDC)	var	H	M	
Tag	Tag Issuer Application Data (PayWave-qVSDC)	2	H	M	"9F10"
Len	Len Issuer Application Data (PayWave-qVSDC)	1	H	M	"07"
Val	Issuer Application Data (AFL) (PayWave-qVSDC)	7	H	M	

A) Tamanho variável entre "0" e "20".

Tabela 335 - DGI-A001 Alternate Select Response M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"A001"
Len DGI		1	H		
Tag	Tag FCI Control Information Template	1	H	M	"6F"
Len	Len FCI Control Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	"84"
Len	Len DF Name	1	H	M	A)
Val	DF Name	var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	"A5"
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	"50"
Len	Len Application Label	1	H	M	Até "10"
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	"87"
Len	Len Application Priority Indicator	1	H	M	"01"
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	"5F2D"
Len	Len Language Preference	1	H	M	"02" "04"
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	"9F11"
Len	Len Issuer Code Table Index	1	H	M	"01"
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	"9F12"

DGI-A001 Alternate Select Response M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	“0620”
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Client Log Entry	2	H	M	“0B0A”

A) Tamanho variável entre “05” e “10”.

Tabela 336 - DGI-A001 Alternate Select Response M/Chip Advance

DGI-A001 Alternate Select Response M/Chip Advance					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A001”
Len DGI		1	H		
Tag	Tag FCI ontrol Information Template	1	H	M	“6F”
Len	Len FCI ontrol Information Template	1 2	H	M	
Tag	Tag DF Name	1	H	M	“84”
Len	Len DF Name	1	H	M	
Val	DF Name	Var	H	M	
Tag	Tag FCI Proprietary Template	1	H	M	“A5”
Len	Len FCI Proprietary Template	1 2	H	M	
Tag	Tag Application Label	1	H	M	“50”
Len	Len Application Label	1	H	M	Até “10”
Val	Application Label	16	H	M	
Tag	Tag Application Priority Indicator	1	H	M	“87”
Len	Len Application Priority Indicator	1	H	M	“01”
Val	Application Priority Indicator	1	H	M	
Tag	Tag Language Preference	2	H	M	“5F2D”

DGI-A001 Alternate Select Response M/Chip Advance					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Language Preference	1	H	M	“02” “04”
Val	Language Preference	2 4	H	M	
Tag	Tag Issuer Code Table Index	2	H	M	“9F11”
Len	Len Issuer Code Table Index	1	H	M	“01”
Val	Issuer Code Table Index	1	H	M	
Tag	Tag Application Preferred Name	2	H	M	“9F12”
Len	Len Application Preferred Name	1	H	M	“10”
Val	Application Preferred Name	16	H	M	
Tag	Tag FCI Issuer Discretionary Data Template	2	H	M	“BF0C”
Len	Len FCI Issuer Discretionary Data Template	1	H	M	
Tag	Tag Proprietary Issuer Country Code	2	H	M	“DF48”
Len	Len Proprietary Issuer Country Code	1	H	M	“02”
Val	Proprietary Issuer Country Code	2	H	M	“0620”
Tag	Tag Client Fee Inhibition	2	H	M	“DF40”
Len	Len Client Fee Inhibition	1	H	M	“01”
Val	Client Fee Inhibition	1	H	M	“00” “01”
Tag	Tag Log Entry	2	H	M	“9F4D”
Len	Len Log Entry	1	H	M	“02”
Val	Log Entry	1	H	M	“0B0A”
Tag	Tag Third Party Data	2	H	M	“9F6E”
Len	Len Third Party Data	1	H	M	“07”
Val	Third Party Data	7	H	M	

Tabela 337 - DGI-A002 Persistent Data Elements M/Chip

DGI-A002 Persistent Data Elements M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A002”
Len DGI		1	H		
Tag	Tag Application Control	1	H	M	“D5”
Len	Len Application Control	1	H	M	“02”
Val	Application Control	2	H	M	“0000”- MasterCard sem Pin “0800”- MasterCard com Pin “0800”- Maestro (com Pin)

DGI-A002 Persistent Data Elements M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Default ARPC Response Code	1	H	M	“D6”
Len	Len Default ARPC Response Code	1	H	M	“02”
Val	Default ARPC Response Code	2	H	M	“0010” para Maestro e “0012” para MasterCard
Tag	Tag Lower Consecutive Offline Limit	2	H	M	“9F14”
Len	Len Lower Consecutive Offline Limit	1	H	M	“01”
Val	Lower Consecutive Offline Limit (LCOL)	1	H	M	
Tag	Tag Upper Consecutive Offline Limit	2	H	M	“9F23”
Len	Len Upper Consecutive Offline Limit	1	H	M	“01”
Val	Upper Consecutive Offline Limit (UCOL)	1	H	M	
Tag	Tag Lower Cumulative Offline Transaction Amount	1	H	M	“CA”
Len	Len Lower Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Lower Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Upper Cumulative Offline Transaction Amount	1	H	M	“CB”
Len	Len Upper Cumulative Offline Transaction Amount	1	H	M	“06”
Val	Upper Cumulative Offline Transaction Amount	6	H	M	
Tag	Tag Card Issuer Action Code – Decline	1	H	M	“C3”
Len	Len Card Issuer Action Code – Decline	1	H	M	“03”
Val	Card Issuer Action Code – Decline	3	H	M	
Tag	Tag Card Issuer Action Code – Default	1	H	M	“C4”
Len	Len Card Issuer Action Code – Default	1	H	M	“03”
Val	Card Issuer Action Code – Default	3	H	M	
Tag	Tag Card Issuer Action Code – Online	1	H	M	“C5”
Len	Len Card Issuer Action Code – Online	1	H	M	“03”
Val	Card Issuer Action Code – Online	3	H	M	
Tag	Tag CRM Currency Code	1	H	M	“C9”
Len	Len CRM Currency Code	1	H	M	“02”
Val	CRM Currency Code	2	H	M	“0978”
Tag	Tag Currency Conversion Table	2	H	M	“D1”
Len	Len Currency Conversion Table	1	H	M	“19”
Val	Currency Conversion Table	25	H	M	(5 entradas, devem vir todas preenchidas, mesmo com valores <i>dummy</i>)
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	
Tag	Tag CDOL1 Related Data Length	1	H	M	“C7”
Len	Len CDOL1 Related Data Length	1	H	M	“01”

DGI-A002 Persistent Data Elements M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Val	CDOL1 Related Data Length	1	H	M	“42”-MChipSelect-DDA
Tag	Tag Additional Check Table	1	H	M	“D3”
Len	Len Additional Check Table	1	H	M	“12”
Val	Additional Check Table	18	H	M	“0000000000 00000000”

Tabela 338 - DGI-A002 Common Risk Management Parameters M/Chip Advance

DGI-A002 Common Risk Management Parameters M/Chip Advance					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A002”
Len DGI		1	H		
Tag	Tag Accumulator 1 Currency Code	1	H	M	“C9”
Len	Len Accumulator 1 Currency Code	1	H	M	“02”
Val	Accumulator 1 Currency Code	2	H	M	Da antiga DGI-A002
Tag	Tag Accumulator 1 Currency Conversion Table	1	H	M	“D1”
Len	Len Accumulator 1 Currency Conversion Table	1	H	M	“19”
Val	Accumulator 1 Currency Conversion Table	25	H	M	“097800010009780001000 978000100097800010009 78000100”
Tag	Tag Accumulator 1 Lower Limit	1	H	M	“CA”
Len	Len Accumulator 1 Lower Limit	1	H	M	“06”
Val	Accumulator 1 Lower Limit	6	H	M	Da antiga DGI-A002
Tag	Tag Accumulator 1 Upper Limit	1	H	M	“CB”
Len	Len Accumulator 1 Upper Limit	1	H	M	“06”
Val	Accumulator 1 Upper Limit	6	H	M	Da antiga DGI-A002
Tag	Tag Accumulator 2 Currency Code	2	H	M	“DF16”
Len	Len Accumulator 2 Currency Code	1	H	M	“02”
Val	Accumulator 2 Currency Code	2	H	M	“0999”
Tag	Tag Accumulator 2 Currency Conversion Table	2	H	M	“DF17”
Len	Len Accumulator 2 Currency Conversion Table	1	H	M	“19”
Val	Accumulator 2 Currency Conversion Table	25	H	M	“099900010009990001000 999000100099900010009 99000100”
Tag	Tag Accumulator 2 Lower Limit	2	H	M	“DF18”
Len	Len Accumulator 2 Lower Limit	1	H	M	“06”
Val	Accumulator 2 Lower Limit	6	H	M	
Tag	Tag Accumulator 2 Upper Limit	2	H	M	“DF19”

DGI-A002 Common Risk Management Parameters M/Chip Advance					
	Nome	Dim	Form	Req	Conteúdo
Len	Len Accumulator 2 Upper Limit	1	H	M	“06”
Val	Accumulator 2 Upper Limit	6	H	M	
Tag	Tag Additional Check Table	1	H	M	“D3”
Len	Len Additional Check Table	1	H	M	“12”
Val	Additional Check Table	18	H	M	“000000FFFFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFF”
Tag	Tag CDOL1 Related Data Length	1	H	M	“C7”
Len	Len CDOL1 Related Data Length	1	H	M	“01”
Val	CDOL1 Related Data Length	1	H	M	“42”
Tag	Tag Counter 1 Lower Limit	2	H	M	“9F14”
Len	Len Counter 1 Lower Limit	1	H	M	“01”
Val	Counter 1 Lower Limit	1	H	M	Da antiga DGI-A002
Tag	Tag Counter 1 Upper Limit	2	H	M	“9F23”
Len	Len Counter 1 Upper Limit	1	H	M	“01”
Val	Counter 1 Upper Limit	1	H	M	Da antiga DGI-A002
Tag	Tag Counter 2 Lower Limit	2	H	M	“DF1F”
Len	Len Counter 2 Lower Limit	1	H	M	“01”
Val	Counter 2 Lower Limit	1	H	M	
Tag	Tag Counter 2 Upper Limit	2	H	M	“DF21”
Len	Len Counter 2 Upper Limit	1	H	M	“01”
Val	Counter 2 Upper Limit	1	H	M	
Tag	Tag CRM Country Code	1	H	M	“C8”
Len	Len CRM Country Code	1	H	M	“02”
Val	CRM Country Code	2	H	M	Da antiga DGI-A002
Val	Cryptogram Version Number	1	H	M	“10”
Tag	Tag Default ARPC Response Code	1	H	M	“D6”
Len	Len Default ARPC Response Code	1	H	M	“02”
Val	Default ARPC Response Code	2	H	M	“0010”
Tag	Tag Interface Enabling Switch	2	H	M	“DF30”
Len	Len Interface Enabling Switch	1	H	M	“01”
Val	Interface Enabling Switch	1	H	M	“03” Contacto e Contactless ativos
Tag	Tag MTA Currency Code	2	H	M	“DF24”
Len	Len MTA Currency Code	1	H	M	“02”
Val	MTA Currency Code	2	H	M	“0999” (Não usado)

DGI-A002 Common Risk Management Parameters M/Chip Advance

	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Number Of Days Offline Limit	2	H	M	“DF27”
Len	Len Number Of Days Offline Limit	1	H	M	“02”
Val	Number Of Days Offline Limit	2	H	M	“0000” (Não usado)

Tabela 339 - DGI-A003 CFDC Key Limits M/Chip

DGI-A003 CFDC Key Limits M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A003”
Len DGI		1	H		
Val	CFDC Limit SMI	1	H	M	“03”
Val	CFDC Limit SMC	1	H	M	“03”
Val	CFDC Limit AC	1	H	M	“03”

Tabela 340 - DGI-A004 Public Key Length

DGI-A004 Public Key Length					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A004”
Len DGI		1	H		
Val	Length Of ICC Public Key Modulus	1	H	M	
Val	Length Of ICC PIN Encipherment Public Key Modulus	1	H	M	“00”

Tabela 341 - DGI-A005 Alternate Get Processing Options M/chip

DGI-A005 Alternate Get Processing Options M/CHIP					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A005”
Len DGI		1	H		
Val	Application Interchange Profile (AIP)	2	H	M	
Val	Application File Locator (AFL)		H	M	Contact-Only MasterCard/Maestro (M/Chip Advance): “08010200 10020301 18030600 A8010400” Contact-Mode MasterCard/Maestro (Paypass M/Chip Advance):

DGI-A005 Alternate Get Processing Options M/CHIP

	Nome	Dim	Form	Req	Conteúdo
					“08020300 10020301 18030600 A8010400”

Tabela 342 - DGI-A006 ICC Dynamic Number Master Key M/Chip
DGI-A006 ICC Dynamic Number Master Key M/Chip

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A006”
Len DGI		1	H		
Val	ICC Dynamic Number Master Key A	8	H	M	
Val	ICC Dynamic Number Key B	8	H	M	

Tabela 343 - DGI-A007 Persistent Data Elements M/Chip - 1
DGI-A007 Persistent Data Elements M/Chip - 1

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A007”
Len DGI		1	H		
Val	Application Transaction Counter Limit	2	H	M	“FFFF”
Val	Previous Transaction History	1	H	M	“00”-ContactOnly “08”-Contactless- ContactMode
Val	MAC in Script Counter Limit	1	H	M	“0F”
Val	Global MAC in Script Counter Limit	3	H	M	“FFFFFF”
Val	Key Derivation Index	1	H	M	

Tabela 344 - DGI-A007 Persistent Data Elements M/Chip - 2
DGI-A007 PERSISTENT DATA ELEMENTS M/CHIP - 2

	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A007”
Len DGI		1	H		
Val	Application Transaction Counter Limit	2	H	M	“FFFF”
Val	Previous Transaction History	1	H	M	“00” - ContactOnly “08” - Contactless - ContactMode
Val	AC Session Key Counter Limit	2	H	M	“FFFF”
Val	SMI Session Key Counter Limit	2	H	M	“FFFF”
Val	Key Derivation Index	1	H	M	

Tabela 345 - DGI-A007 Application Status and ATC Limit

DGI-A007 - Application Status and ATC Limit					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A007”
Len DGI		1	H		“03”
Val	Application Transaction Counter Limit	2	H	M	Da antiga DGI-A007
Val	Previous Transaction History	1	H	M	“08”

Tabela 346 - DGI-A008 Bad Cryptogram Counter Limit M/Chip

DGI-A008 Bad Cryptogram Counter Limit M/Chip					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A008”
Len DGI		1	H		
Val	Bad Cryptogram Counter Limit	2	H	M	“0400”

Tabela 347 - DGI-A008 PIN Decipherments Error Counter Limit

DGI-A008 PIN Decipherments Error Counter Limit					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A008”
Len DGI		1	H		“05”
Tag	Tag PIN Decipherments Error Counter Limit	2	H	M	“DF36”
Len	Len PIN Decipherments Error Counter Limit	1	H	M	“02”
Val	PIN Decipherments Error Counter Limit	2	H	M	“01F4”

Tabela 348 - DGI-A009 Application Life Cycle Data

DGI-A009 Application Life Cycle Data					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A009”
Len DGI		1	H		“14”
Val	Application Life Cycle Data - Application Issuer ID	20	H	M	“00”s

Tabela 349 - DGI-A012 Contact Risk Management Parameters M/Chip Advance

DGI-A012 Contact Risk Management Parameters M/Chip Advance					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A012”
Len DGI		1	H		
Tag	Tag Accumulator 1 Control (Contact)	2	H	M	“DF11”
Len	Len Accumulator 1 Control (Contact)	1	H	M	“01”
Val	Accumulator 1 Control (Contact)	1	H	M	“C0”
Tag	Tag Accumulator 1 CVR Dependency Data (Contact)	2	H	M	“DF28”
Len	Len Accumulator 1 CVR Dependency Data (Contact)	1	H	M	“03”
Val	Accumulator 1 CVR Dependency Data (Contact)	3	H	M	“000000” (Não usado)
Tag	Tag Accumulator 2 Control (Contact)	2	H	M	“DF14”
Len	Len Accumulator 2 Control (Contact)	1	H	M	“01”
Val	Accumulator 2 Control (Contact)	1	H	M	“00” (Não usado)
Tag	Tag Accumulator 2 CVR Dependency Data (Contact)	2	H	M	“DF2A”
Len	Len Accumulator 2 CVR Dependency Data (Contact)	1	H	M	“03”
Val	Accumulator 2 CVR Dependency Data (Contact)	3	H	M	“000000” (Não usado)
Tag	Tag Counter 1 Control (Contact)	2	H	M	“DF1A”
Len	Len Counter 1 Control (Contact)	1	H	M	“01”
Val	Counter 1 Control (Contact)	1	H	M	“C0”
Tag	Tag Counter 1 CVR Dependency Data (Contact)	2	H	M	“DF2C”
Len	Len Counter 1 CVR Dependency Data (Contact)	1	H	M	“03”
Val	Counter 1 CVR Dependency Data (Contact)	3	H	M	“000000” (Não usado)
Tag	Tag Counter 2 Control (Contact)	2	H	M	“DF1D”
Len	Len Counter 2 Control (Contact)	1	H	M	“01”
Val	Counter 2 Control (Contact)	1	H	M	“00” (Não usado)
Tag	Tag Counter 2 CVR Dependency Data (Contact)	2	H	M	“DF2E”
Len	Len Counter 2 CVR Dependency Data (Contact)	1	H	M	“03”
Val	Counter 2 CVR Dependency Data (Contact)	3	H	M	“000000” (Não usado)
Tag	Tag CVR Issuer Discretionary Data (Contact)	2	H	M	“DF3C”
Len	Len CVR Issuer Discretionary Data (Contact)	1	H	M	“01”
Val	CVR Issuer Discretionary Data (Contact)	1	H	M	“00”
Tag	Tag Interface Identifier (Contact)	2	H	M	“DF3E”
Len	Len Interface Identifier (Contact)	1	H	M	“01”
Val	Interface Identifier (Contact)	1	H	M	
Tag	Tag MTA CVM (Contact)	2	H	M	“DF22”

DGI-A012 Contact Risk Management Parameters M/Chip Advance					
	Nome	Dim	Form	Req	Conteúdo
Len	Len MTA CVM (Contact)	1	H	M	"06"
Val	MTA CVM (Contact)	6	H	M	"000000000000" (Não usado)
Tag	Tag MTA NoCVM (Contact)	2	H	M	"DF25"
Len	Len MTA NoCVM (Contact)	1	H	M	"06"
Val	MTA NoCVM (Contact)	6	H	M	"000000000000" (Não usado)

Tabela 350 - DGI-A013 Application Control M/Chip Advance Contact

DGI-A013 Application Control M/Chip Advance Contact					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"A013"
Len DGI		1	H		"08"
Tag	Tag Application Control (Contact)	1	H	M	"D5"
Len	Len Application Control (Contact)	1	H	M	"06"
Val	Application Control (Contact)	6	H	M	MasterCard: "08 00 80 00 C6 02" Maestro: "08 00 80 00 C6 02"

Tabela 351 - DGI-A014 Read Record Filter M/Chip Advance Contact

DGI-A014 DGI-A014 Read Record Filter M/Chip Advance Contact					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"A014"
Len DGI		1	H		Var.
Tag	Tag Read Record Filter (Contact)	2	H	M	"DF3F"
Len	Len Read Record Filter (Contact)	1	H	M	Contact-Only MasterCard/Maestro: "00" Paypass MasterCard/Maestro: "00"
Val	Read Record Filter (Contact)	0 16	H	M	Paypass MasterCard/Maestro: "08010100 10010100 18010200 20010200"

Tabela 352 - DGI-A015 Card Issuer Action Codes M/Chip Advance Contact

DGI-A015 Card Issuer Action Codes M/Chip Advance Contact					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"A015"
Len DGI		1	H		"0F"
Tag	Tag Card Issuer Action Code – Decline (Contact)	1	H	M	"C3"
Len	Len Card Issuer Action Code – Decline (Contact)	1	H	M	"03"
Val	Card Issuer Action Code – Decline (Contact)	3	H	M	"000000"
Tag	Tag Card Issuer Action Code – Default (Contact)	1	H	M	"C4"
Len	Len Card Issuer Action Code – Default (Contact)	1	H	M	"03"
Val	Card Issuer Action Code – Default (Contact)	3	H	M	"195800"
Tag	Tag Card Issuer Action Code – Online (Contact)	1	H	M	"C5"
Len	Len Card Issuer Action Code – Online (Contact)	1	H	M	"03"
Val	Card Issuer Action Code – Online (Contact)	3	H	M	"19FB00"

Tabela 353 - DGI-A016 ICC Dynamic Number Master Key M/Chip Advance Contactless

DGI-A016 ICC Dynamic Number Master Key M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"A016"
Len DGI		1	H		"10"
Val	ICC Dynamic Number Master Key A	8	H	M	= DGI-A006
Val	ICC Dynamic Number Key B	8	H	M	= DGI-A006

Tabela 354 - DGI-A017 3DES Key Information M/Chip Advance Contact

DGI-A017 3DES Key Information M/Chip Advance Contact					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		"A017"
Len DGI		1	H		"05"
Val	AC Session Key Counter Limit (Contact)	2	H	M	Da antiga DGI-A007
Val	Key Derivation Index (Contact)	1	H	M	Da antiga DGI-A007
Val	SMI Session Key Counter Limit (Contact)	2	H	M	Da antiga DGI-A007

Tabela 355 - DGI-A022 Contactless Risk Management Parameters M/Chip Advance

DGI-A022 Contactless Risk Management Parameters M/Chip Advance						
	Nome	Dim	Form	Req	Conteúdo	
Tag DGI		2	H		“A022”	
Len DGI		1	H			
Tag	Tag Accumulator 1 Control (Contactless)	2	H	M	“DF12”	
Len	Len Accumulator 1 Control (Contactless)	1	H	M	“01”	
Val	Accumulator 1 Control (Contactless)	1	H	M	“C0”	
Tag	Tag Accumulator 1 CVR Dependency Data (Contactless)	2	H	M	“DF29”	
Len	Len Accumulator 1 CVR Dependency Data (Contactless)	1	H	M	“03”	
Val	Accumulator 1 CVR Dependency Data (Contactless)	3	H	M	“000000” (Não usado)	
Tag	Tag Accumulator 2 Control (Contactless)	2	H	M	“DF15”	
Len	Len Accumulator 2 Control (Contactless)	1	H	M	“01”	
Val	Accumulator 2 Control (Contactless)	1	H	M	“00” (Não usado)	
Tag	Tag Accumulator 2 CVR Dependency Data (Contactless)	2	H	M	“DF2B”	
Len	Len Accumulator 2 CVR Dependency Data (Contactless)	1	H	M	“03”	
Val	Accumulator 2 CVR Dependency Data (Contactless)	3	H	M	“000000” (Não usado)	
Tag	Tag Counter 1 Control (Contactless)	2	H	M	“DF1B”	
Len	Len Counter 1 Control (Contactless)	1	H	M	“01”	
Val	Counter 1 Control (Contactless)	1	H	M	“C0”	
Tag	Tag Counter 1 CVR Dependency Data (Contactless)	2	H	M	“DF2D”	
Len	Len Counter 1 CVR Dependency Data (Contactless)	1	H	M	“03”	
Val	Counter 1 CVR Dependency Data (Contactless)	3	H	M	“000000” (Não usado)	
Tag	Tag Counter 2 Control (Contactless)	2	H	M	“DF1E”	
Len	Len Counter 2 Control (Contactless)	1	H	M	“01”	
Val	Counter 2 Control (Contactless)	1	H	M	“00” (Não usado)	
Tag	Tag Counter 2 CVR Dependency Data (Contactless)	2	H	M	“DF2F”	
Len	Len Counter 2 CVR Dependency Data (Contactless)	1	H	M	“03”	
Val	Counter 2 CVR Dependency Data (Contactless)	3	H	M	“000000” (Não usado)	
Tag	Tag CVR Issuer Discretionary Data (Contactless)	2	H	M	“DF3D”	
Len	Len CVR Issuer Discretionary Data (Contactless)	1	H	M	“01”	
Val	CVR Issuer Discretionary Data (Contactless)	1	H	M	“00”	
Tag	Tag Interface Identifier (Contactless)	2	H	M	“DF3E”	
Len	Len Interface Identifier (Contactless)	1	H	M	“01”	
Val	Interface Identifier (Contactless)	1	H	M		
Tag	Tag MTA CVM (Contactless)	2	H	M	“DF23”	

DGI-A022 Contactless Risk Management Parameters M/Chip Advance					
	Nome	Dim	Form	Req	Conteúdo
Len	Len MTA CVM (Contactless)	1	H	M	“06”
Val	MTA CVM (Contactless)	6	H	M	“0000000000000000” (Não usado)
Tag	Tag MTA NoCVM (Contactless)	2	H	M	“DF26”
Len	Len MTA NoCVM (Contactless)	1	H	M	“06”
Val	MTA NoCVM (Contactless)	6	H	M	“0000000000000000” (Não usado)

Tabela 356 - DGI-A023 Application Control M/Chip Advance Contactless

DGI-A023 Application Control M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A023”
Len DGI		1	H		“08”
Tag	Tag Application Control (Contactless)	1	H	M	“D7”
Len	Len Application Control (Contactless)	1	H	M	“06”
Val	Application Control (Contactless)	6	H	M	PayPass MasterCard: “00 00 40 00 E6 02” PayPass Maestro: “00 00 40 00 E6 02”

Tabela 357 - DGI-A024 Read Record Filter M/Chip Advance Contactless

DGI-A024 Read Record Filter M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A024”
Len DGI		1	H		Var.
Tag	Tag Read Record Filter (Contactless)	2	H	M	“DF40”
Len	Len Read Record Filter (Contactless)	1	H	M	“10”
Val	Read Record Filter (Contactless)	16	H	M	Paypass MasterCard/Maestro: “08020300 10020300 18030600 A8010400”

Tabela 358 - DGI-A025 Card Issuer Action Codes M/Chip Advance Contactless

DGI-A025 Card Issuer Action Codes M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A025”
Len DGI		1	H		“0F”

DGI-A025 Card Issuer Action Codes M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag	Tag Card Issuer Action Code – Decline (Contactless)	1	H	M	“CF”
Len	Len Card Issuer Action Code – Decline (Contactless)	1	H	M	“03”
Val	Card Issuer Action Code – Decline (Contactless)	3	H	M	
Tag	Tag Card Issuer Action Code – Default (Contactless)	1	H	M	“CD”
Len	Len Card Issuer Action Code – Default (Contactless)	1	H	M	“03”
Val	Card Issuer Action Code – Default (Contactless)	3	H	M	
Tag	Tag Card Issuer Action Code – Online (Contactless)	1	H	M	“CE”
Len	Len Card Issuer Action Code – Online (Contactless)	1	H	M	“03”
Val	Card Issuer Action Code – Online (Contactless)	3	H	M	

Tabela 359 - DGI-A027 3DES Key Information M/Chip Advance Contactless

DGI-A027 3DES Key Information M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“A027”
Len DGI		1	H		“05”
Val	AC Session Key Counter Limit (Contactless)	2	H	M	= DGI-A017
Val	Key Derivation Index (Contactless)	1	H	M	= DGI-A017
Val	SMI Session Key Counter Limit (Contactless)	2	H	M	= DGI-A017

Tabela 360 - DGI-B002 (Private) Card Risk Management Data MasterCard PayPass

DGI-B002 (Private) Card Risk Management Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B002”
Len DGI		1	H		
Tag	Tag Application Control PayPass	1	H	M	“D7”
Len	Len Application Control PayPass	1	H	M	“03”
Val	Application Control PayPass	3	H	M	“000040”-PayPass MasterCard DDA-DDA “000080”- PayPass Maestro DDA-DDA
Tag	Tag IVCVC3_TRACK1	1	H	M	“DC”
Len	Len IVCVC3_TRACK1	1	H	M	“02”
Val	Card IVCVC3_TRACK1	2	H	M	
Tag	Tag IVCVC3_TRACK2	1	H	M	“DD”
Len	Len IVCVC3_TRACK2	1	H	M	“02”
Val	Card IVCVC3_TRACK2	2	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Decline	1	H	M	“CF”
Len	Len Card Issuer Action Code (PayPass) – Decline	1	H	M	“03”

DGI-B002 (Private) Card Risk Management Data MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Val	Card Issuer Action Code (PayPass) – Decline	3	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Default	1	H	M	“CD”
Len	Len Card Issuer Action Code (PayPass) – Default	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Default	3	H	M	
Tag	Tag Card Issuer Action Code (PayPass) – Online	1	H	M	“CE”
Len	Len Card Issuer Action Code (PayPass) – Online	1	H	M	“03”
Val	Card Issuer Action Code (PayPass) – Online	3	H	M	

Tabela 361 - DGI-B002 Log Configuration

DGI-B002 Log Configuration					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B002”
Len DGI		1	H		
Tag	Tag Log Data Table	1	H	M	“DE”
Len	Len Log Data Table	1	H	M	“09”
Val	Log Data Table	9	H	M	“00FFFFFFFFFFFFFFF”
Tag	Tag Log Format	2	H	M	“9F4F”
Len	Len Log Format	1	H	M	“1A”
Val	Log Format	26	H	M	“9F27019F02065F2A029A039F36029F5206DF3E019F21039F7C14”

Tabela 362 - DGI-B005 Get Processing Options MasterCard PayPass

DGI-B005 Get Processing Options MasterCard PayPass					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B005”
Len DGI		1	H		
Tag	Tag Application Interchange Profile (PayPass)	1	H	M	“D8”
Len	Len Application Interchange Profile (PayPass)	1	H	M	“02”
Val	Application Interchange Profile (AIP) (PayPass)	2	H	M	“1980”
Tag	Tag Application File Locator (PayPass)	1	H	M	“D9”
Len	Len Application File Locator (PayPass)	1	H	M	“10”
Val	Application File Locator (AFL) (PayPass)	16	H	M	“08010100 10010101 18010200 20010200”

Tabela 363 - DGI-B023 IVCVC3 M/Chip Advance Contactless

DGI-B023 IVCVC3 M/Chip Advance Contactless					
	Nome	Dim	Form	Req	Conteúdo
Tag DGI		2	H		“B023”
Len DGI		1	H		
Tag	Tag IVCVC3_TRACK1 (Contactless)	1	H	M	“DC”
Len	Len IVCVC3_TRACK1 (Contactless)	1	H	M	“02”
Val	Card IVCVC3_TRACK1 (Contactless)	2	H	M	Da antiga DGI-B002
Tag	Tag IVCVC3_TRACK2 (Contactless)	1	H	M	“DD”
Len	Len IVCVC3_TRACK2 (Contactless)	1	H	M	“02”
Val	Card IVCVC3_TRACK2 (Contactless)	2	H	M	Da antiga DGI-B002

3.2.6 Registo Final

O registo de finalização do ficheiro contém informação do total de regtos que o compõem.

Tabela 364 - Ficheiro PERS - Módulo Trailer

MIC	TRL1				
LENGTH	0000008				
Nº	Sigla	Nome			Comp.
0107	FIC_REGQNT	Número de Registros			8 N

3.3 Ficheiro PINM

A estrutura do ficheiro PIN segue de perto a estrutura presente nas especificações EMV *Card Personalization Specification* (EMV CPS v1.1 July 2007).

A informação nele contida encontra-se compartimentada por MICs (*Module Identification Code*) sendo estes divididos por linhas distintas no ficheiro consoante a sua aplicabilidade é relativa à produção no seu todo ou a cada cartão a personalizar.

A informação em cada Módulo é composta por:

- MIC (*Module Identification Code*): Identificador do Módulo.
- MIC *length*: Dimensão dos dados relativos ao Módulo.
- MIC *data*: Conjunto de dados relativos ao Módulo.

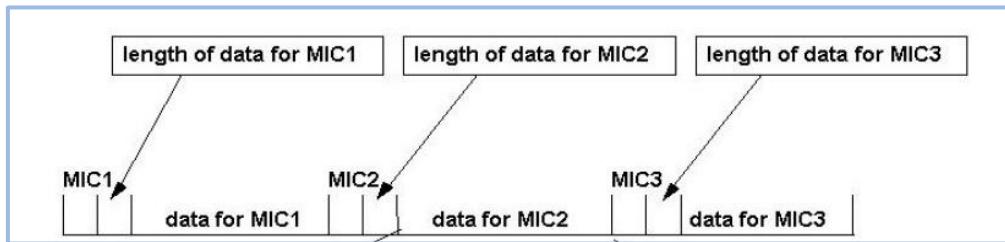


Figura 7 - Estrutura do Ficheiro de Emissão de Cartas de PIN – ficheiro PINM

A estrutura do campo MIC é a seguinte:

- Designação do MIC 3 bytes; Versão do MIC 1 byte; Total 4 bytes (a norma prevê de 1 a 7 bytes);
- Dimensão do MIC 7 bytes (de acordo com a norma);

A estrutura do ficheiro obedece ao seguinte desenho:

- Uma linha (ou registo) de inicialização (*header*);
- Uma linha (ou registo) de parâmetros da produção;
- Uma linha (ou registo) por cada carta de PIN;
- ...
- Uma linha (ou registo) de finalização (*trailer*).

Quadro resumo da estrutura:

Registros	Módulos (MIC)	MIC / Len	Âmbito
Registo Inicial	Módulo Header	HDR1 / 0000049	Produção
Parâmetros da Produção	Módulo Parâmetros Módulo Contentor Parâmetros Módulo Template de Chaves Módulo Format Keys	PAR1 / 0000055 CTP1 / 0000050 CHV1 / 0000124 FTK2 / variável	Produção
Registo Identificação do Cartão	Módulo Identificação Registo Emissão Módulo Identificação do PAN Módulo Contentor Detalhe Módulo Carta PIN Módulo Pinblock Módulo Identificação Conta/Agência Módulo Dados de Endereçamento	IDE1 / 0000019 PAN1 / 0000040 CTC1 / 0000200 CRT1 / 0000224 PBL1 / 0000032 CNP1 / 0000080 END1 / 0000440	Carta
Registo Final	Módulo Trailer	TRL1 / 0000013	Produção

3.3.1 Registo Inicial

3.3.1.1 Módulo Header

O registo inicial contém informação de controlo, geral para todo o ficheiro. Este é composto pelo módulo HDR.

Tabela 365 - Módulo Header - MIC HDR1

MIC	HDR1				
LENGTH	0000049				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
0101	FIC_APL_ID1	Aplicação	1	A	'M'
0102	FIC_NOMN01	Nome do Ficheiro	4	A	'PINM'
0064	FIC_VER	Versão do Ficheiro	2	N	'01'
0327	COM_NUM (ORIGEM)	Identificação de Comerciante/Empresa	7	N	'0000001'
0327	COM_NUM (DESTINO)	Identificação de Comerciante/Empresa	7	N	A)
0061	FIC_SEQN01	Identificação do Ficheiro	11	N	B)
0062	FIC_SEQN01_ULT	Identificação do Ficheiro Anterior	11	N	B)
0233	EXT_MOECOD	Código de Moeda	3	N	
0226	EXT_CTYCOD	Código de País	3	N	

- A) Nº Comerciante Personalizador;
 B) Formato: AAAAMMDDSSS.

3.3.2 Parâmetros da Produção

3.3.2.1 Módulo Parâmetros

O registo de parâmetros é composto por quatro MICs e contém o *setup* de informação relativa à produção a que este respeita. Este registo inicia-se pelo módulo PAR.

Tabela 366 - Módulo Parâmetros - MIC PRM1

MIC	PRM1				
LENGTH	0000055				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
4306	SIS_EMITIP	Tipo de Emissor	1	A	
0344	CAR_EMICOD	Código de Emissor	7	N	
3252	FIC_NOMN01_ORI	Ficheiro Original	4	A	
0061	FIC_SEQN01	Identificação do Ficheiro	11	N	
5510	CAR_PRSQNT	Número de Cartões/Cartas a Personalizar	6	N	A)
0222	SPI_IDE	Sistema de Pagamento	1	A	
5326	CAR_IDEPRS	Identificação do Personalizador	3	N	
5511	EFT_IDE_PRS	Endereço <i>File Transfer</i> Ficheiro Personalização	8	A	
4316	FIC_EMIDAT	Data de Emissão do Ficheiro	8	N	
4317	FIC_EMIHOR	Hora de Emissão do Ficheiro	6	N	

A) Nº cartas PIN.

3.3.2.2 Módulo Contentor Parâmetros

Tabela 367 - Módulo Contentor Parâmetros - MIC CTP1

MIC	CTP1					
LENGTH	0000050					
Nº	Sigla	Nome			Comp.	Rep.
4285	EXT_INFPRS	Info para o Personalizador (Parâmetro)			50	A A)

A) Contentor parâmetros.

3.3.2.3 Módulo Template de Chaves

Tabela 368 - Módulo Template de Chaves - MIC CHV1

MIC	CHV1				
LENGTH	0000124				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
7736	CHV_ZCMK_IDTK	ID Zone Control Master Key	12	H	"Fbbbbbbkkkkkkkkkkavv"
7737	CHV_KSPIN_IDTK	ID Chave Transporte PINS	12	H	'FFFFFF4B5350494E000001'
7738	CHV_KSPIN	Chave Transporte PIN	16	H	ZCMK(KSPIN)
7739	CHV_KSKEY_IDTK	ID Chave Transporte Chaves 3DES	12	H	'FFFFFF4B534B4559000001'
7740	CHV_KSKEY	Chave Transporte Chaves 3DES	16	H	ZCMK(KSKEY)
7741	CHV_KSCIF_IDTK	ID Chave Transporte Dados Críticos	12	H	'FFFFFF4B53434946000001'
7742	CHV_KSCIF	Chave Transporte Dados Críticos	16	H	ZCMK(KSCIF)
7743	CHV_KSMAC_IDTK	ID Chave Transporte MAC	12	H	'FFFFFF4B534D4143000001'
7744	CHV_KSMAC	Chave Transporte MAC	16	H	ZCMK(KSMAC)

Tabela 369 - Estrutura do Campo ZCMK_IDTK

Campo	Dimensão	Formato	Conteúdo	Descrição
Padding	1	H	'F'	
Issuer Code	7	H		Código de Identificação do Emissor (Banco ou Entidade) justificado à direita e com padding a zeros à esquerda. Utiliza-se O Código de Comerciante
Padding	13	H	'000000000000000'	

Campo	Dimensão	Formato	Conteúdo	Descrição
Ambiente	1	H	0 - Teste 1 - Produção	Ambiente.
TK Version	2	H		Versão da ZCMK usada.

24 H
12 Binary

- Os campos KS_IDTK identificam as KS (Chaves de Sessão) utilizadas para proteger as DGI do MIC *chip* ou proteger os restantes MICs do PERS. A estrutura dos KS_IDTK é a seguinte:

Tabela 370 - Estrutura do Campo KS_IDTK

Campo	Dimensão	Formato	Conteúdo	Descrição
Padding	4	H	'FFFFFFFF'	
KS	5	H	'4B5350494E' ("KSPIN" Ascii) '4B534B4559' ("KSKEY" Ascii) '4B53434946' ("KSCIF" Ascii) '4B534D4143' ("KSMAC" Ascii)	KS
KS Version	3	H	'000001'	Versão da KS

3.3.2.4 Módulo Format Keys

Tabela 371 - Módulo Format Keys - MIC FTK2

MIC	FTK2				
LENGTH	Variável				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
7745	CHV_FOR_TK	Formato Proteção Chaves Transporte	1	H	'02'
Proteção de confidencialidade de dados críticos (KSCIF)					
7746	CHV_IDTK	ID Chave Transporte	12	H	'FFFFFFFF4B53434946000001'
7747	CHV_TIP_TK	Tipo Proteção Chave Transporte	1	H	'20'
7748	CHV_CMODE_TK	Algoritmo Cifra Chave	1	H	'11'
7749	CHV_NUMMIC_TK	Número MIC Relacionado Com Chave Transporte	1	H	'02'
7750	CHV_MIC_TK	MIC Chave Transporte	Var	H	'PAN1' 'CRT1'
Proteção de integridade (KSMAC)					
7746	CHV_IDTK	ID Chave Transporte	12	H	'FFFFFFFF4B534D4143000001'
7747	CHV_TIP_TK	Tipo Proteção Chave Transporte	1	H	'A0'

MIC	FTK2				
LENGTH	Variável				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
7748	CHV_CMODE_TK	Algoritmo Cifra Chave	1	H	'11'
7749	CHV_NUMMIC_TK	Número MIC Relacionado Com Chave Transporte	1	H	'1'
7750	CHV_MIC_TK	MIC Chave Transporte	Var	H	'END1'
	PADDING		1	H	'8000000000'
7752	CHV_MACMIC	MAC MIC	8	H	

3.3.3 Registo Identificação do Cartão

Cada Registo do detalhe diz respeito a uma Carta de PIN a emitir.

3.3.3.1 Módulo Identificação do Registo de Emissão

Tabela 372 - Módulo Identificação do Registo de Emissão - MIC IDP1

MIC	IDP1				
LENGTH	0000019				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
0061	FIC_SEQN01	Identificação do Ficheiro	11	N	
5512	FIC_REGNUMN02	Sequência do Registo de Emissão	6	N	
7326	CAR_CPIQNT	Número de Cartas de PIN Impressas	2	N	A)

A) Inicializado com zeros.

3.3.3.2 Módulo Identificação do PAN

Tabela 373 - Módulo Identificação do PAN - MIC PAN1

MIC	PAN1				
LENGTH	0000040				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
2324	CAR_PANLGT	Comprimento do PAN	2	N	
2325	CAR_PAN	<i>Primary Account Number</i>	19	N	
0126	CAR_EXPDATN02	Data de Expiração do Cartão	4	N	
	PADDING		7	H	A)
7752	CHV_MACMIC		8	H	

- A) Valor: '8000000000000000'.

3.3.3.3 Módulo Contentor Detalhe

Tabela 374 - Módulo Contentor Detalhe - MIC CTC1

MIC	CTC1				
LENGTH	0000200				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
4286	EXT_INFPRSA01	Info para o Personalizador (Detalhe)	200	A	A)

- A) "Contentor detalhe".

3.3.3.4 Módulo Carta PIN

Tabela 375 - Módulo Carta PIN - MIC CRT1

MIC	CRT1				
LENGTH	0000224				
Nº	Sigla	Nome	Comp.	Rep.	Obs.
5552	CAR_TITNOMA01	Nome do Titular	70	A	
7353	SIS_DSGEMIA01	Designação do Emissor	22	A	A)
7354	SIS_DSGPRO	Designação Livre	22	A	B)
5552	CAR_TITNOMA01 (3)	Nome do Titular	70	A	
4318	CAR_PANFOR	PAN Formatado	25	A	C)
	PINBLOCKFORMAT		2	H	E)
	PADDING		5	H	D)
7752	CHV_MACMIC		8	H	

- A) Designação do Emissor;
- B) Designação livre;
- C) Formatado para a carta de PIN;
- D) Valor: '8000000000'.
- E) Formato 03 da norma ISO 9564.

3.3.3.5 Módulo Pinblock

Tabela 376 - Módulo Pinblock - MIC PBL1

MIC	PBL1				
LENGTH	32				
Nº	Sigla	Comp.	Rep.	Obs.	
	PINBLOCK	16	H	Cifrado pela KSPIN	

MIC	PBL1			
LENGTH	32			
Nº	Sigla	Comp.	Rep.	Obs.
	PADDING	8	H	'8000000000000000'
7752	CHV_MACMIC	8	H	

3.3.3.6 Módulo Identificação Conta/Agencia

Tabela 377 - Módulo Identificação Conta/Agencia - MIC CNP1

MIC	CNP1					
LENGTH	0000080					
Nº	Sigla	Nome		Comp.	Rep.	Obs.
0134	BAN_AGE COD	Código da Agência		4	N	
0132	SAN_NUM	Número da Conta (SAN1, SAN2 ou outra)		15	N	A)
0132	SAN_NUM	Número da Conta (SAN1, SAN2 ou outra)		15	N	B)
0085	CAR_SCDNUMN	Número da Conta Crédito		15	N	C)
0429	EXT_NIB	Número Identificação Bancária		21	N	D)
	PADDING			2	H	'8000'
7752	CHV_MACMIC			8	H	

- A) Valor: SAN1;
- B) Valor: SAN2;
- C) Conta Crédito;
- D) NIB.

3.3.3.7 Módulo Dados de Endereçamento

Tabela 378 - Módulo Dados de Endereçamento - MIC END1

MIC	END1				
LENGTH	0000440				
Nº	Sigla	Nome		Comp.	Rep.
5552	CAR_TITNOMA01	Nome do Titular		70	A
5552	CAR_TITNOMA01 (2)	Nome do Titular		70	A
5550	CLI_MORA01	Morada Cliente		70	A
5550	CLI_MORA01 (2)	Morada Cliente		70	A
4470	CLI_LOCA01	Localidade		35	A
0083	CLI_CODPST	Código Postal		8	A
4462	CLI_LOCPOSTA01	Localidade Postal		40	A
0226	EXT_CTYCOD	Código de País		3	N

MIC	END1					
LENGTH	0000440					
Nº	Sigla	Nome			Comp.	Rep.
3371	EXT_DSGCTY	Designação do Código de País			60	A
	PADDING				6	H A)
7752	CHV_MACMIC				8	H

A) Valor: '8000000000000'.

3.3.4 Registo Final

3.3.4.1 Módulo *Trailer*

Tabela 379 - Módulo *Trailer* - MIC TRL1

MIC	TRL1					
LENGTH	13					
Nº	Sigla	Nome			Comp.	Rep.
0107	FIC_REGQNT	Número de Registros			8	N

3.4 Ficheiro CPER

Tabela 380 - Ficheiro CPER - Retorno da Personalização de Cartões

N.º	Sigla do Campo	Nome do Campo	Comp.	Pos.	Rep.	Obs.
Header						
0111	FIC_REGCOD	Tipo de Registo	1	1	A	'0'
0101	FIC_APL_ID1	Aplicação	1	2	A	'M'
0102	FIC_NOMN01	Nome do Ficheiro	4	3	A	'CPER'
0064	FIC_VER	Versão do Ficheiro	2	7	N	'01'
0061	FIC_SEQN01	Identificação do Ficheiro	11	9	N	AAAAMMDDSSS
0062	FIC_SEQN01_ULT	Identificação do Ficheiro Anterior	11	20	N	AAAAMMDDSSS
5326	CAR_IDEPERS	Identificação do Personalizador	3	31	N	Código do Personalizador
	Filler		187	34	A	
			Total	220		
Registo de Detalhe 1						
0111	FIC_REGCOD	Tipo de Registo	1	1	A	'1'
0061	FIC_SEQN01	Identificação do Ficheiro	11	2	N	MIC IDE - PERS
3252	FIC_NOMN01_ORI	Ficheiro Original	4	13	A	MIC PAR do PERS
0061	FIC_SEQN01	Identificação do Ficheiro	11	17	N	AAAAMMDDSSS: id. Fich Orig.

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N.º	Sigla do Campo	Nome do Campo	Comp.	Pos.	Rep.	Obs.
5512	FIC_REGNUMN02	Sequência do Registo de Emissão	6	28	N	MIC IDE - PERS
6430	CAR_ETRDAT	Data de Entrada	8	34	N	AAAAMMDD: Entrada no Personalizador
1134	CAR_PRDDAT	Data Produção ou Última Renovação do Cartão	8	42	N	AAAAMMDD
6431	CAR_EXDDAT	Data de Expedição	8	50	N	AAAAMMDD: Saída do Personalizador
6432	CAR_PRDIND	Indicador de Produção de Cartão	1	58	A	
0222	SPI_IDE	Sistema de Pagamento	1	59	A	
7327	CAR_TAGLFC	Tag do CPLC - <i>Card Production Life Cycle</i>	4	60	A	
7328	CAR_LFCLGT	Comprimento do CPLC - <i>Card Production Life Cycle</i>	3	64	N	A)
6428	CAR_PRDLFC	CPLC - <i>Card Production Life Cycle</i>	142	67	A	B)
	<i>Filler</i>		12	209	A	
		Total	220			
Trailer						
0111	FIC_REGCOD	Tipo de Registo	1	1	A	'9'
5850	LOG_REGQNT	Quantidade de Registros de Log	8	2	N	Número de Registros
	<i>Filler</i>		211	10	A	
		Total	220			

Notas:

- A) O conteúdo deste atributo define o tamanho do atributo CAR_PRDLFC (6428).
- B) CPLC, Este atributo irá assumir o conteúdo que estiver definido no atributo CAR_LFCLGT (7328).

4 Dicionário de Dados

N.º	Sigla	Nome Campo	Comp.	Rep.	Formato	Descrição	Valores
0061	FIC_SEQN01	Identificação do Ficheiro	11	N	AAAAMMDDSSS	<p>Identificação única atribuída a cada ficheiro. Tem o formato: AAAAMMDDsss em que AAAAMMDD indica a data de produção do ficheiro e sss o número de sequência do ficheiro no dia.</p> <p>O destinatário deverá validar que ainda não processou um ficheiro do mesmo tipo com esta identificação.</p>	
0062	FIC_SEQN01_ULT	Identificação do Ficheiro Anterior	11	N	AAAAMMDDSSS	Identifica o ficheiro do mesmo tipo expedido anteriormente. O controlo da sequencialidade dos ficheiros permite detetar a falta de transmissão de ficheiros ou a sua produção em duplicado. O formato é idêntico ao do campo anterior.	
0064	FIC_VER	Versão do Ficheiro	2	N		Identifica, no header dos ficheiros, a versão do ficheiro indicado no campo (0102) FIC_NOMN01. Permite que possam ser suportados ficheiros com formatos diferentes para o mesmo serviço.	
0101	FIC_APL_ID1	Aplicação	1	A		<p>Trata-se de uma informação presente nos headers dos ficheiros e que identifica a aplicação em que o mesmo se insere.</p> <p>(Valores possíveis constam na TSISATR) (o G - SPGT, foi descontinuado)</p>	B - SEPA DD B2B C - Cheques D - SDD E - Efeitos H - PE_ACH K - Serviços - SIBS Cartões L - GRL-PL M - MULTIBANCO O - GRL-RO P - SEPA CT

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N.º	Sigla	Nome Campo	Comp.	Rep.	Formato	Descrição	Valores
							Q - TEI - 1 R - TEI - 2 S - SEPA DD CORE T - GRL-PT V - SVBANK - (não aplicável)
0102	FIC_NOMN01	Nome do Ficheiro	4	A		Identifica o ficheiro em que se insere. Dentro da aplicação é único.	
0111	FIC_REGCOD	Tipo de Registo	1	A		Código que distingue os tipos de registo de um ficheiro ou mensagem. Os restantes tipos são especificados em cada ficheiro ou mensagem.	0 - Registo header de ficheiro; 9 - Registo trailer de ficheiro.
0222	SPI_IDE	Sistema de Pagamento	1	A		Código atribuído ao Sistema de Pagamento considerado. Este campo pode estar preenchido com um espaço quando não tenha aplicabilidade no registo ou mensagem em questão. Os valores M, R, S, T, U, V, X e Z são utilizados no Portal de Serviços SIBS, no âmbito da Gestão de Reclamações - Serviço Acquirer e Serviço Emissor. No âmbito da aplicação de Emissores e Produção de Cartões os valores a considerar são: A; C; S; X.	espaço - sem valor 1 - Acordos Bilaterais 2 - Unicre 3 - American Express 4 - Saving Banks 5 - Gest. Fin. N / Ban. 6 - Gasolineira 7 - TEI 9 - SIBS A - MasterCard B - BPN C - Visa D - Contratos Diretos SIBS E - JCB F - Montepio G - CCCAM H - Banif Malta I - ATM Switching K - ASERV (Polónia)

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N.º	Sigla	Nome Campo	Comp.	Rep.	Formato	Descrição	Valores
							M - BCP Roménia R - CGD S - SIBS T - BES U - Unicre V - BBPI W - SMS (Single Message) X - AMEX Z - TOTTA
1134	CAR_PRDDAT	Data Produção ou Última Renovação do Cartão	8	N	AAAAMMDD	É a data em que o cartão foi produzido ou que foi renovado no sistema da SIBS.	
3252	FIC_NOMN01_ORI	Ficheiro Original	4	A		Identifica o ficheiro em que se insere. Dentro da aplicação é único (versão do atributo (0102) FIC_NOMN01).	
5326	CAR_IDEPRS	Identificação do Personalizador	3	N		Identificação do personalizador de cartões selecionado pelo Emissor. A SIBS pode, por delegação do Emissor, enviar o ficheiro diretamente para o personalizador escolhido, desde que este esteja identificado no sistema e possua uma chave de transporte própria (ZCMK).	1 – SIBS CARTÕES 2 – Contiforme 3 - SIBS CARTÕES - PIN 4 - INCM 33 - BCP PERS 998 - Personal EXT - PEMV 999 - SIBS CARTÕES - IPER
5512	FIC_REGNUMN02	Sequência do Registo de Emissão	6	N		Número sequencial do registo, informado no ficheiro de emissão de cartões. Conjuntamente com a identificação do ficheiro constituirá uma chave de cartão (não cifrada) que permitira o emparelhamento entre o ficheiro de emissão e o ficheiro de personalização (em que a identificação de cartão se encontra cifrada), nomeadamente para envio de dados adicionais e/ou permitir a reordenação dos registos a personalizar. Nota: Para evitar a geração de ficheiros excessivamente grandes (devido ao nº de	

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N.º	Sigla	Nome Campo	Comp.	Rep.	Formato	Descrição	Valores
						aplicações no chip e respetiva criptografia) o nº máximo de registos num ficheiro de emissão não deverá exceder os 2000.	
5850	LOG_REGQNT	Quantidade de Registos de Log	8	N		<p>Este campo indica a quantidade de registo de LOG.</p> <p>É usado, p.e., para indicar a quantidade de registo que fazem parte de um LOTE de registo de LOG.</p>	
6428	CAR_PRDLFC	Cplc - Card Production Life Cycle	142	A		<p>CPLC – <i>Card Production Life Cycle</i>, que caracteriza o ciclo de vida de produção do cartão, desde o fabrico à Personalização.</p> <p>OFFSET - CPLC DATA OBJECT - LENGTH</p> <ul style="list-style-type: none"> 0 - IC Fabricator - 2 2 - IC type - 2 4 - Operating System Identifier - 2 6 - Operating System Release date - 2 8 - Operating System Release Level - 2 10 - IC Fabrication Date - 2 12 - IC Serial Number - 4 16 - IC Batch Identifier - 2 18 - IC Module Fabricator - 2 20 - IC Module Packaging Date - 2 22 - ICC Manufacturer - 2 24 - IC Embedding Date - 2 26 - IC Pre-Personalizer - 2 28 - IC Pre-personalization Date - 2 30 - IC Pre-personalization Equipment Identifier - 4 34 - IC Personalizer - 2 36 - IC Personalization Date - 2 38 - IC Personalization Equipment Identifier - 4 	

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N.º	Sigla	Nome Campo	Comp.	Rep.	Formato	Descrição	Valores
6430	CAR_ETRDAT	Data de Entrada	8	N		Data de Entrada do Ficheiro. Formato: AAAAMMDD	
6431	CAR_EXDDAT	Data de Expedição	8	N		Data de expedição do ficheiro: Formato: AAAAMMDD	
6432	CAR_PRDIND	Indicador de Produção de Cartão	1	A		Indicador de Produção do Cartão: 'N' - Não 'S' - Sim	
7327	CAR_TAGLFC	Tag do Cplc - Card Production Life Cycle	4	A		TAG do CPLC. Depende do SPI do chip.	
7328	CAR_LFCLGT	Comprimento do Cplc - Card Production Life Cycle	3	N		Comprimento do CPLC. Depende do SPI do chip.	
7736	CHV_ZCMK_IDTK	ID Zone Control Master Key	12	H		Zone Control Master Key (ZCMK) identifica a chave utilizada para proteger as chaves de transporte (TK - Transport Keys). Esta chave é partilhada entre o Emissor e o Personalizador.	'Fbbbbbbkkkkkkkkkkavv'
7737	CHV_KSPIN_IDTK	ID Chave Transporte de Pins	12	H		Identifica a chave de transporte (TK -Transport Keys) dos PINs. Esta Chave é utilizada para proteger a confidencialidade dos dados críticos das DGI do MIC Chip ou os restantes MIC dos ficheiros PERS e PINM.	'FFFFFF4B5350494E000001'
7738	CHV_KSPIN	Chave de Transporte Do PIN	16	H		Transport Key do PIN. Esta cifra permite cifrar o PIN.	
7739	CHV_KSKEY_IDTK	ID da Chave de Transporte das Chaves 3DES	12	H		Identifica a chave de transporte (TK -Transport Keys) das chaves (Chaves 3DES de cartão e chaves RSA e constantes CRT). Esta Chave é utilizada para proteger a confidencialidade dos dados críticos das DGI do MIC Chip ou os restantes MIC dos ficheiros PERS e PINM	'FFFFFF4B534B4559000001'
7740	CHV_KSKEY	Chave de Transporte das Chaves 3DES	16	H		Transport Key das Chaves. Esta cifra permite cifrar as Chaves (Chaves 3DES de cartão e chaves RSA e constantes CRT).	

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N.º	Sigla	Nome Campo	Comp.	Rep.	Formato	Descrição	Valores
7741	CHV_KSCIF_IDTK	ID da Chave de Transporte dos Dados Críticos	12	H		Identifica a chave de transporte (TK -Transport Keys) dos dados críticos do cartão (ex. CVV, PAN e data de expiração). Esta Chave é utilizada para proteger a confidencialidade dos dados críticos das DGI do MIC Chip ou os restantes MIC dos ficheiros PERS e PINM	
7742	CHV_KSCIF	Chave de Transporte dos Dados Críticos	16	H		Transport Key das Chaves. Esta cifra permite cifrar os dados críticos do cartão(ex. CVV, PAN e data de expiração).	
7743	CHV_KSMAC_IDTK	ID da Chave de Transporte do Mac	2	H		Identifica a chave de transporte (TK -Transport Keys) do MAC. Esta Chave é utilizada para proteger os dados para integridade dos dados críticos das DGI do MIC Chip ou os restantes MIC dos ficheiros PERS e PINM.	'FFFFFFFF4B534D4143000001'
7744	CHV_KSMAC	Chave de Transporte do MAC					
7745	CHV_FOR_TK	Formato de Proteção das Chaves de Transporte	1	H		Formato da proteção das Transport Keys (TK) que permitem proteger os dados.	
7746	CHV_IDTK	ID da Chave de Transporte	12	H		Identifica a chave de transporte (TK - Transport Keys) que vai cifrar os MIC. Existem TK para proteção da confidencialidade: KSPIN, KSKEY, KSCIF.	KSPIN_IDTK - 'FFFFFFFF4B5350494E000001' KSKEY_IDTK - 'FFFFFFFF4B534B4559000001' KSCIF_IDTK - 'FFFFFFFF4B53434946000001' KSMAC_IDTK - 'FFFFFFFF4B534D4143000001'
7747	CHV_TIP_TK	Tipo de Proteção da Chave de Transporte	1	H		Tipo de proteção da TK (Transport Key).	'20' - General Propose; 'A0' - TK used for MAC encryption.
7748	CHV_CMODE_TK	Algoritmo de Cifra da Chave	1	H		Identifica o algoritmo da cifra da chave.	'11' - ECB; '10' - CBC.
7749	CHV_NUMMIC_TK	Número de MIC Relacionado com a Chave de Transporte	1	H		Número de MIC que são alvo das TK (Transport Keys).	'00' a '99'.

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N.º	Sigla	Nome Campo	Comp.	Rep.	Formato	Descrição	Valores
7750	CHV_MIC_TK	MIC da Chave de Transporte	Var	H		Identificação dos MIC alvo das TK	Dimensão igual ao Nº MICs x 4 bytes
7752	CHV_MACMIC	MAC do MIC	8	H		Message Authentication Code (MAC) permite proteger os dados para integridade para cada MIC ou DGI. O MAC é calculado através de um algoritmo. O cálculo do MAC é realizado ao conteúdo integral do MIC, designação e dimensão do MIC depois do conteúdo estar cifrado.	

Anexo A. Interpretação da Tabela de Combinação de DGI

Exemplo 1

Para um Cartão PayPass Maestro com as seguintes características:

- 2 Aplicações: Maestro+CAP;
- *Contact-mode* SDA e *Contactless-mode* DDA;
- Com Offline PIN, não Cifrado.

As colunas da Tabela de Combinação de DGI a selecionar são neste caso 3:

- M/Chip MasterCard/ Maestro (*Contact-Mode*) (SDA);
- PayPass / Mchip (*Contactless-Mode*) (CDA);
- CAP.

As DGI a incluir são as relativas às linhas que tiverem um √ assinalado numa destas colunas, ou seja:

Tabela 381 - DGI a incluir para o exemplo 1

ID DGI	Nome DGI	DGI Cifrada por KS	M/Chip MasterCard/ Maestro (Contact-Mode) (SDA)	PayPass / Mchip (Contactless-Mode) (CDA)	CAP
DGI-0101	Track Data MASTERCARD PayPass MagStripe	KS CIF		√	
DGI-0201	(SDA) CARD DATA MASTERCARD PayPass	KS CIF		√	
DGI-0202	(SDA) CARD DATA MASTERCARD	KS CIF	√		
DGI-0203	Track Data	KS CIF	√		
DGI-0204	(non SDA) Card Data MASTERCARD - 2		√		
DGI-0205	Signed Static Application Data		√		
DGI-0301	Static Data Authentication Data - 2		√	√	
DGI-0302	Signed Static Application Data			√	
DGI-0401	DDA Data MASTERCARD PayPass			√	
DGI-0402	DDA Data (ICC PK Certificate) MASTERCARD PayPass			√	
DGI-0D01	(Internal) Card Risk Management Data M/Chip		√		
DGI-0E01	(Private) Card Risk Management Data M/Chip		√		
DGI-1501	Proprietary Tag Usage - GERAL		√		
DGI-1502	Proprietary Tag Usage - Linha de Crédito		√		

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ID DGI	Nome DGI	DGI Cifrada por KS	M/Chip MasterCard/ Maestro (Contact-Mode) (SDA)	PayPass / Mchip (Contactless-Mode) (CDA)	CAP
DGI-1503	Proprietary Tag Usage - Fidelização		✓		
DGI-1504	Proprietary Tag Usage - Programa de Emissor		✓		
DGI-300D	(Internal) Card Risk Management Data CAP				✓
DGI-300F	(Private) Card Risk Management Data CAP				✓
DGI-3212	Card Data CAP/DPA	KS CIF			✓
DGI-8000	DES UDK Keys	KS KEY	✓	✓	✓
DGI-8010	Offline PIN	KS PIN	✓		✓
DGI-8101	ICC Private Key (DDA / ICC PIN Encipherment) Exponent	KS KEY		✓	
DGI-8103	ICC Private Key (DDA / ICC PIN Encipherment) Modulus	KS KEY		✓	
DGI-8201	ICC Private Key CRT Constant $q^{-1} \text{ mod } p$	KS KEY		✓	
DGI-8202	ICC Private Key CRT Constant d mod (q-1)	KS KEY		✓	
DGI-8203	ICC Private Key CRT Constant d mod (p-1)	KS KEY		✓	
DGI-8204	ICC Private Key CRT Constant prime factor q	KS KEY		✓	
DGI-8205	ICC Private Key CRT Constant prime factor p	KS KEY		✓	
DGI-8400	DES CVC3 Keys	KS KEY		✓	
DGI-9000	DES Key Check Values		✓	✓	✓
DGI-9001	DES Key Check Values CVC3			✓	
DGI-9010	Offline PIN Data		✓		✓
DGI-9102	SELECT Response Data M/Chip		✓	✓	
DGI-9102	SELECT Response Data CAP/DPA				✓
DGI-9104	GET PROCESSING OPTIONS Response Data		✓		
DGI-9104	GET PROCESSING OPTIONS Response Data CAP/DPA				✓
DGI-9200	GENERATE AC Response Data MASTERCARD		✓	✓	
DGI-B002	(Private) Card Risk Management Data MASTERCARD PayPass			✓	
DGI-B005	GET PROCESSING OPTIONS MASTERCARD PayPass			✓	

Exemplo 2:

Para um Cartão Maestro (*Contact-only*) com as seguintes características:

- 2 Aplicações: Maestro+CAP;
- *Contact SDA*;
- Com *Offline PIN*, não Cifrado;

As colunas da Tabela de Combinação de DGI a selecionar são neste caso 2:

- M/Chip MasterCard/ Maestro (*Contact-Only*) (SDA);
- CAP;

As DGI a incluir são as relativas às linhas que tiverem um ✓ assinalado numa destas colunas, ou seja:

Tabela 382 - DGI a incluir para o exemplo 2

ID DGI	Nome DGI	DGI Cifrada por KS	M/Chip MasterCard/ Maestro (<i>Contact-Only</i>) (SDA)	CAP
DGI-0101	Track Data	KS CIF	✓	
DGI-0201	(SDA) CARD DATA MASTERCARD	KS CIF	✓	
DGI-0202	(non SDA) Card Data MASTERCARD		✓	
DGI-0203	Static Data Authentication Data - MasterCard		✓	
DGI-0204	Signed Static Application Data		✓	
DGI-1501	Proprietary Tag Usage - GERAL		✓	
DGI-1502	Proprietary Tag Usage - Linha de Crédito		✓	
DGI-1503	Proprietary Tag Usage - Fidelização		✓	
DGI-1504	Proprietary Tag Usage - Programa de Emissor		✓	
DGI-0D01	(Internal) Card Risk Management Data M/Chip		✓	
DGI-0E01	(Private) Card Risk Management Data M/Chip		✓	
DGI-300D	(Internal) Card Risk Management Data CAP			✓
DGI-300F	(Private) Card Risk Management Data CAP			✓
DGI-3212	Card Data CAP/DPA	KS CIF		✓
DGI-8000	DES UDK Keys	KS KEY	✓	✓
DGI-8010	Offline PIN	KS PIN	✓	✓
DGI-9000	DES Key Check Values		✓	✓
DGI-9010	Offline PIN Data		✓	✓
DGI-9102	SELECT Response Data M/Chip		✓	
DGI-9102	SELECT Response Data CAP/DPA			✓
DGI-9104	GET PROCESSING OPTIONS Response Data		✓	
DGI-9104	GET PROCESSING OPTIONS Response Data CAP/DPA			✓
DGI-9200	GENERATE AC Response Data MASTERCARD		✓	

Exemplo 3:

Para um Cartão MasterCard (*Contact-only*) com as seguintes características:

- 1 Aplicação: MasterCard;
- *Contact* SDA;
- Sem *Offline PIN* (*);

As colunas da Tabela de Combinação de DGI a selecionar é neste caso 1:

- M/Chip MasterCard/ Maestro (*Contact-Only*) (SDA);

As DGI a incluir são as relativas às linhas que tiverem um ✓ assinalado numa destas colunas, ou seja:

Tabela 383 - DGI a incluir para o exemplo 3

ID DGI	Nome DGI	DGI Cifrada por KS	M/Chip MasterCard/ Maestro (<i>Contact-Only</i>) (SDA)
DGI-0101	Track Data	KS CIF	✓
DGI-0201	(SDA) CARD DATA MASTERCARD	KS CIF	✓
DGI-0202	(non SDA) Card Data MASTERCARD		✓
DGI-0203	Static Data Authentication Data - MasterCard		✓
DGI-0204	Signed Static Application Data		✓
DGI-1501	Proprietary Tag Usage - GERAL		✓
DGI-1502	Proprietary Tag Usage - Linha de Crédito		✓
DGI-1503	Proprietary Tag Usage - Fidelização		✓
DGI-1504	Proprietary Tag Usage - Programa de Emissor		✓
DGI-0D01	(Internal) Card Risk Management Data M/Chip		✓
DGI-0E01	(Private) Card Risk Management Data M/Chip		✓
DGI-8000	DES UDK Keys	KS KEY	✓
DGI-8010	Offline PIN (*)	KS PIN	✓
DGI-9000	DES Key Check Values		✓
DGI-9010	Offline PIN Data (*)		✓
DGI-9102	SELECT Response Data M/Chip		✓
DGI-9104	GET PROCESSING OPTIONS Response Data		✓
DGI-9200	GENERATE AC Response Data MASTERCARD		✓

(*) Apesar de não existir Offline PIN para esta aplicação, deve manter-se a presença destas DGI.

Exemplo 4:

Para um Cartão *PayWave Electron* com as seguintes características:

- 2 Aplicações: Electron+DPA;
- *Contact-mode* SDA e *Contactless-mode* DDA;
- Sem Offline PIN.

As colunas da Tabela de Combinação de DGI a selecionar são neste caso 3:

- VISA / Electron (VSDC) (*Contact-Mode*) (SDA);
- *PayWave* (*Contactless-Mode*) (fDDA);
- DPA.

As DGI a incluir são as relativas às linhas que tiverem um ✓ assinalado numa destas colunas, ou seja:

Tabela 384 - DGI a incluir para o exemplo 4

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (<i>Contact-Mode</i>) (SDA)	PayWave	DPA
DGI-0101	Track Data VISA PayWave MSD	KS CIF		✓	
DGI-0102	Track Data	KS CIF	✓		
DGI-0201	IPK CERTIFICATE		✓	✓	
DGI-0202	VISA PayWave Data Authentication Data			✓	
DGI-0203	Static Data Authentication Data - 2		✓		
DGI-0204	Signed Static Application Data			✓	
DGI-0301	(SDA) CARD DATA VISA	KS CIF	✓		
DGI-0302	(non SDA) Card Data VISA		✓		
DGI-0A01	Proprietary Tag Usage - GERAL		✓		
DGI-0A02	Proprietary Tag Usage - Linha de Crédito		✓		
DGI-0A03	Proprietary Tag Usage - Fidelização		✓		
DGI-0A04	Proprietary Tag Usage - Programa de Emissor		✓		
DGI-0E01	Card Private Data VISA PayWave - Part 1	KS CIF	✓	✓	
DGI-0E01	Card Private Data VISA PayWave - Part 2	KS CIF	✓	✓	
DGI-300C	(Internal) Card Risk Management Data DPA				✓
DGI-300E	(Private) Card Risk Management Data DPA				✓
DGI-3212	Card Data CAP/DPA	KS CIF			✓
DGI-8000	DES UDK Keys	KS KEY	✓	✓	✓
DGI-8001	Alternate DES UDK Key for MSD	KS KEY		✓	
DGI-8010	Offline PIN (*)	KS PIN	✓		✓

Interface para Personalizados

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Mode) (SDA)	PayWave	DPA
DGI-8101	ICC Private Key (DDA / ICC PIN Encipherment) Exponent	KS KEY		✓	
DGI-8103	ICC Private Key (DDA / ICC PIN Encipherment) Modulus	KS KEY		✓	
DGI-8201	ICC Private Key CRT Constant $q^{-1} \text{ mod } p$	KS KEY		✓	
DGI-8202	ICC Private Key CRT Constant d mod (q-1)	KS KEY		✓	
DGI-8203	ICC Private Key CRT Constant d mod (p-1)	KS KEY		✓	
DGI-8204	ICC Private Key CRT Constant prime factor q	KS KEY		✓	
DGI-8205	ICC Private Key CRT Constant prime factor p	KS KEY		✓	
DGI-9000	DES Key Check Values		✓	✓	✓
DGI-9010	Offline PIN Data (*)		✓		✓
DGI-9102	SELECT Response Data VSDC		✓		
DGI-9102	SELECT Response Data CAP/DPA				✓
DGI-9103	SELECT Response Data VISA PAYWAVE			✓	
DGI-9104	GET PROCESSING OPTIONS Response Data	✓			
DGI-9104	GET PROCESSING OPTIONS Response Data CAP/DPA				✓
DGI-9200	GENERATE AC Response Data VISA		✓		
DGI-9206	GET PROCESSING OPTIONS VISA PayWave MSD			✓	
DGI-9207	GET PROCESSING OPTIONS VISA PayWave qVSDC			✓	

(*) Apesar de não existir Offline PIN para esta aplicação, deve manter-se a presença destas DGI.

Exemplo 5:

Para um Cartão VISA (Contact-only) com as seguintes características:

- Aplicações: VISA +DPA;
- Contact DAS;
- Sem Offline PIN (*).

As colunas da Tabela de Combinação de DGI a selecionar são neste caso 2:

- VISA / Electron (VSDC) (Contact-Only) (SDA);
- DPA.

As DGI a incluir são as relativas às linhas que tiverem um ✓ assinalado numa destas colunas, ou seja:

Tabela 385 - DGI a incluir para o exemplo 5

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (Contact-Only) (SDA)	DPA
DGI-0101	Track Data	KS CIF	✓	
DGI-0102	CARD HOLDER NAME DATA VISA		✓	
DGI-0201	(SDA) CARD DATA VISA	KS CIF	✓	
DGI-0202	(non SDA) Card Data VISA		✓	
DGI-0202	(non SDA) Card Data VISA		✓	
DGI-0203	Static Data Authentication Data		✓	
DGI-0204	Signed Static Application Data		✓	
DGI-0A01	Proprietary Tag Usage - GERAL		✓	
DGI-0A02	Proprietary Tag Usage - Linha de Crédito		✓	
DGI-0A03	Proprietary Tag Usage - Fidelização		✓	
DGI-0A04	Proprietary Tag Usage - Programa de Emissor		✓	
DGI-0D01	(Internal) Card Risk Management Data VSDC		✓	
DGI-0E01	(Private) Card Risk Management Data VSDC		✓	
DGI-300C	(Internal) Card Risk Management Data DPA			✓
DGI-300E	(Private) Card Risk Management Data DPA			✓
DGI-3212	Card Data CAP/DPA	KS CIF		✓
DGI-8000	DES UDK Keys	KS KEY	✓	✓
DGI-8010	Offline PIN (*)	KS PIN	✓	✓
DGI-9000	DES Key Check Values		✓	✓
DGI-9010	Offline PIN Data (*)		✓	✓
DGI-9102	SELECT Response Data VSDC		✓	
DGI-9102	SELECT Response Data CAP/DPA			✓
DGI-9104	GET PROCESSING OPTIONS Response Data		✓	
DGI-9104	GET PROCESSING OPTIONS Response Data CAP/DPA			✓
DGI-9200	GENERATE AC Response Data VISA		✓	

(*) Apesar de não existir Offline PIN para esta aplicação, deve manter-se a presença destas DGI.

Exemplo 6:

Para um Cartão VISA (*Contact-only*) com as seguintes características:

- 1 Aplicação: VISA;
- *Contact* SDA;
- Sem *Offline PIN* (*).

As colunas da Tabela de Combinação de DGI a selecionar é neste caso 1:

- VISA / Electron (VSDC) (*Contact-Only*) (SDA).

As DGI a incluir são as relativas às linhas que tiverem um ✓ assinalado numa destas colunas, ou seja:

Tabela 386 - DGI a incluir para o exemplo 6

ID DGI	Nome DGI	DGI Cifrada por KS	VISA / Electron (VSDC) (<i>Contact-Only</i>) (SDA)
DGI-0101	Track Data	KS CIF	✓
DGI-0102	CARD HOLDER NAME DATA VISA		✓
DGI-0201	(SDA) CARD DATA VISA	KS CIF	✓
DGI-0202	(non SDA) CARD DATA VISA		✓
DGI-0202	(non SDA) Card Data VISA		✓
DGI-0203	Static Data Authentication Data		✓
DGI-0204	Signed Static Application Data		✓
DGI-0A01	Proprietary Tag Usage - GERAL		✓
DGI-0A02	Proprietary Tag Usage - Linha de Crédito		✓
DGI-0A03	Proprietary Tag Usage - Fidelização		✓
DGI-0A04	Proprietary Tag Usage - Programa de Emissor		✓
DGI-0D01	(Internal) Card Risk Management Data VSDC		✓
DGI-0E01	(Private) Card Risk Management Data VSDC		✓
DGI-8000	DES UDK Keys	KS KEY	✓
DGI-8010	Offline PIN (*)	KS PIN	✓
DGI-9000	DES Key Check Values		✓
DGI-9010	Offline PIN Data (*)		✓
DGI-9102	SELECT Response Data VSDC		✓
DGI-9104	GET PROCESSING OPTIONS Response Data		✓
DGI-9200	GENERATE AC Response Data VISA		✓

(*) Apesar de não existir Offline PIN para esta aplicação, deve manter-se a presença destas DGI.

Anexo B. Profile MasterCard M/Chip Advance V1.2

File Control Information

Data object name	Tag	Length	Value	
File Control Information	6F	var.		?
DF Name	84	var. (7-16)	'A0000000041010'	?
FCI Proprietary Template	A5	var.		?
Application Label	50	var. (1-16)	"MasterCard"	?
Application Preferred Name	9F12	var. (1-16)	"MasterCard"	?
Application Priority Indicator	87	1	'01'	?
Issuer Code Table Index	9F11	1	Determined by issuer	?
Language Preference	5F2D	var. (2-8)	Determined by issuer	?
PDOL	9F38	3 or 6	NOT PRESENT	?
FCI Issuer Discretionary Data	Add object	BF0C	var.	?
Application Capabilities Information	9F5D	3	'000000' <input checked="" type="radio"/> Present <input type="radio"/> Not present	?
Issuer Country Code (alpha2 format)	5F55	2	NOT PRESENT	?
Issuer Identification Number	42	3	NOT PRESENT	?
Log Entry	9F4D	2	'0B0A'	?
Third Party Data	9F6E	var. (5-32)	'06200000303000'	?

Comments

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MCA Data Objects

Data object name	Tag	Length	Value	
AC Master Key (Contact)	-	16	Data preparation	?
AC Master Key (Contactless)	-	16	Data preparation	?
AC Session Key Counter Limit (Contact)	DF3A	2	'0400'	?
AC Session Key Counter Limit (Contactless)	DF34	2	'4E20'	?
Accumulator 1 Control (Contact)	DF11	1	'C0'	?
Accumulator 1 Control (Contactless)	DF12	1	'C0'	?
Accumulator 1 Currency Code	C9	2	'0978'	?
Accumulator 1 Currency Conversion Table	D1	25	'097800010009780001000978000100097800010 00978000100'	?
				Expand
Accumulator 1 CVR Dependency Data (Contact)	DF28	3	'000000'	?
Accumulator 1 CVR Dependency Data (Contactless)	DF29	3	'000000'	?
Accumulator 1 Lower Limit	CA	6	Determined by issuer	?
Accumulator 1 Upper Limit	CB	6	Determined by issuer	?
Accumulator 2 Control (Contact)	DF14	1	'00'	?
Accumulator 2 Control (Contactless)	DF15	1	'00'	?
Accumulator 2 Currency Code	DF16	2	'0999'	?
Accumulator 2 Currency Conversion Table	DF17	25	'099900010009990001000999000100099900010 00999000100'	?
				Expand
Accumulator 2 CVR Dependency Data (Contact)	DF2A	3	'000000'	?
Accumulator 2 CVR Dependency Data (Contactless)	DF2B	3	'000000'	?
Accumulator 2 Lower Limit	DF18	6	'000000000000'	?
Accumulator 2 Upper Limit	DF19	6	'000000000000'	?
Additional Check Table	D3	18	'000000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF'	?
AID	4F	var. (7-16)	'A0000000041010'	?

Interface para Personalizadores

Application Control (Contact)	D5	6	'08008000C602'	?
Application Control (Contactless)	D7	6	'00004000E602'	?
Application File Locator (Contact)	94	var.	'080203001002030118030600A8010400'	?
Application File Locator (Contactless)	D9	var.	'08010100100101011801020020010200'	Expand
Application Interchange Profile (Contact)	82	2	'3900'	?
Application Interchange Profile (Contactless)	D8	2	'1980'	?
Application Life Cycle Data	9F7E	48	Data preparation	?
Application Transaction Counter Limit	-	2	'4E20'	?
Card Issuer Action Code (Contact) - Decline	C3	3	'000000'	?
Card Issuer Action Code (Contact) - Default	C4	3	'195800'	?
Card Issuer Action Code (Contact) - Online	C5	3	'19FB00'	?
Card Issuer Action Code (Contactless) - Decline	CF	3	'080000'	?
Card Issuer Action Code (Contactless) - Default	CD	3	'005800'	?
Card Issuer Action Code (Contactless) - Online	CE	3	'00F800'	?
CDOL1 Related Data Length	C7	1	'42'	?
Counter 1 Control (Contact)	DF1A	1	'C0'	?
Counter 1 Control (Contactless)	DF1B	1	'C0'	?
Counter 1 CVR Dependency Data (Contact)	DF2C	3	'000000'	?
Counter 1 CVR Dependency Data (Contactless)	DF2D	3	'000000'	?
Counter 1 Lower Limit	9F14	1	Determined by issuer	?
Counter 1 Upper Limit	9F23	1	Determined by issuer	?
Counter 2 Control (Contact)	DF1D	1	'00'	?
Counter 2 Control (Contactless)	DF1E	1	'00'	?
Counter 2 CVR Dependency Data (Contact)	DF2E	3	'000000'	?
Counter 2 CVR Dependency Data (Contactless)	DF2F	3	'000000'	?
Counter 2 Lower Limit	DF1F	1	'00'	?
Counter 2 Upper Limit	DF21	1	'00'	?

Interface para Personalizadores

CRM Country Code	C8	2	'0620'	?
Cryptogram Version Number V2.x	—	1	'10'	?
CVR Issuer Discretionary Data (Contact)	DF3C	1	'00'	?
CVR Issuer Discretionary Data (Contactless)	DF3D	1	'00'	?
Default ARPC Response Code	D6	2	'0010'	?
ICC Dynamic Number Master Key (Contact)	—	16	Data preparation	?
ICC Dynamic Number Master Key (Contactless)	—	16	Data preparation	?
ICC PIN Encipherment Private Key	—	var.	"	?
ICC Private Key	—	var.	Data preparation	?
Interface Enabling Switch	DF30	1	'03'	?
Interface Identifier (Contact)	—	1	'00'	?
Interface Identifier (Contactless)	—	1	'01'	?
IVCVC3(Track1) (Contact)	DF38	2	'0000'	?
IVCVC3(Track1) (Contactless)	DC	2	'0000'	?
IVCVC3(Track2) (Contact)	DF39	2	'0000'	?
IVCVC3(Track2) (Contactless)	DD	2	'0000'	?
KDCVC3 (Contact)	—	16	'00000000000000000000000000000000'	?
KDCVC3 (Contactless)	—	16	'00000000000000000000000000000000'	?
Key Derivation Index (Contact)	—	1	Determined by issuer	?
Key Derivation Index (Contactless)	—	1	Determined by issuer	?
Last Online Transaction Date	—	2	'0000'	?
Length Of ICC PIN Encipherment Public Key Modulus	—	1	'00'	?
Length Of ICC Public Key Modulus	—	1	Determined by issuer	?
Log Data Table	DE	9	'0000000000000000'	?
Log Format	9F4F	26	'9F27019F02065F2A029A039F360 <input checked="" type="radio"/> Present 019F21039F7C14' <input type="radio"/> Not present	?

Interface para Personalizadores

MTA Currency Code	DF24	2	'0999'	?
MTA CVM (Contact)	DF22	6	'00000000000000'	?
MTA CVM (Contactless)	DF23	6	'00000000000000'	?
MTA NoCVM (Contact)	DF25	6	'00000000000000'	?
MTA NoCVM (Contactless)	DF26	6	'00000000000000'	?
Number Of Days Offline Limit	DF27	2	'0000'	?
PIN Decipherments Error Counter Limit	DF36	2	'01F4'	?
PIN Try Counter	9F17	1	'03'	?
PIN Try Limit	C6	1	'03'	?
Previous Transaction History	-	1	'08'	?
Read Record Filter (Contact)	DF3F	var.	'00'	Expand
Read Record Filter (Contactless)	DF40	var.	'080203001002030018030600A8010400'	?
				Expand
Reference PIN	-	8	Data preparation	?
SMC Master Key (Contact)	-	16	Data preparation	?
SMC Master Key (Contactless)	-	16	Data preparation	?
SMI Master Key (Contact)	-	16	Data preparation	?
SMI Master Key (Contactless)	-	16	Data preparation	?
SMI Session Key Counter Limit (Contact)	DF32	2	'0400'	?
SMI Session Key Counter Limit (Contactless)	DF33	2	'0400'	?

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Anexo C. Profile Maestro M/Chip Advance V1.2

File Control Information

Data object name	Tag	Length	Value	
File Control Information	6F	var.		?
DF Name	84	var. (7-16)	'A0000000043060'	?
FCI Proprietary Template	A5	var.		?
Application Label	50	var. (1-16)	"Maestro"	?
Application Preferred Name	9F12	var. (1-16)	"Maestro"	?
Application Priority Indicator	87	1	'01'	?
Issuer Code Table Index	9F11	1	Determined by issuer	?
Language Preference	5F2D	var. (2-8)	Determined by issuer	?
PDOL	9F38	3 or 6	NOT PRESENT	?
FCI Issuer Discretionary Data	BF0C	var.	'000000' <input checked="" type="radio"/> Present <input type="radio"/> Not present	?
Application Capabilities Information				
Issuer Country Code (alpha2 format)	5F55	2	NOT PRESENT	?
Issuer Identification Number	42	3	NOT PRESENT	?
Log Entry	9F4D	2	'0B0A'	?
Third Party Data	9F6E	var. (5-32)	'0620000303000'	?

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MCA Data Objects

Data object name	Tag	Length	Value	
AC Master Key (Contact)	-	16	Data preparation	?
AC Master Key (Contactless)	-	16	Data preparation	?
AC Session Key Counter Limit (Contact)	DF3A	2	'0400'	?
AC Session Key Counter Limit (Contactless)	DF34	2	'4E20'	?
Accumulator 1 Control (Contact)	DF11	1	'C0'	?
Accumulator 1 Control (Contactless)	DF12	1	'C0'	?
Accumulator 1 Currency Code	C9	2	'0978'	?
Accumulator 1 Currency Conversion Table	D1	25	'097800010009780001000978000100097800010 00978000100'	?
				Expand
Accumulator 1 CVR Dependency Data (Contact)	DF28	3	'000000'	?
Accumulator 1 CVR Dependency Data (Contactless)	DF29	3	'000000'	?
Accumulator 1 Lower Limit	CA	6	Determined by issuer	?
Accumulator 1 Upper Limit	CB	6	Determined by issuer	?
Accumulator 2 Control (Contact)	DF14	1	'00'	?
Accumulator 2 Control (Contactless)	DF15	1	'00'	?
Accumulator 2 Currency Code	DF16	2	'0999'	?
Accumulator 2 Currency Conversion Table	DF17	25	'099900010009990001000999000100099900010 00999000100'	?
				Expand
Accumulator 2 CVR Dependency Data (Contact)	DF2A	3	'000000'	?
Accumulator 2 CVR Dependency Data (Contactless)	DF2B	3	'000000'	?
Accumulator 2 Lower Limit	DF18	6	'000000000000'	?
Accumulator 2 Upper Limit	DF19	6	'000000000000'	?
Additional Check Table	D3	18	'000000FFFFFFFFFFFFFFF'FFFF'FFFF'FFFF'FFFF'	?
AID	4F	var. (7-16)	'A0000000043060'	?
Application Control (Contact)	D5	6	'08008000C602'	?
Application Control (Contactless)	D7	6	'00008000E602'	?

Interface para Personalizadores

Application File Locator (Contact)	94	var.	'080203001002020118030600A80104001'	?
Application File Locator (Contactless)	D9	var.	'08010100100101011801020020010200'	?
Application Interchange Profile (Contact)	82	2	'3900'	?
Application Interchange Profile (Contactless)	D8	2	'1980'	?
Application Life Cycle Data	9F7E	48	Data preparation	?
Application Transaction Counter Limit	-	2	'4E20'	?
Card Issuer Action Code (Contact) - Decline	C3	3	'000000'	?
Card Issuer Action Code (Contact) - Default	C4	3	'395800'	?
Card Issuer Action Code (Contact) - Online	C5	3	'39FB00'	?
Card Issuer Action Code (Contactless) - Decline	CF	3	'080000'	?
Card Issuer Action Code (Contactless) - Default	CD	3	'005800'	?
Card Issuer Action Code (Contactless) - Online	CE	3	'00F800'	?
CDOL1 Related Data Length	C7	1	'42'	?
Counter 1 Control (Contact)	DF1A	1	'C0'	?
Counter 1 Control (Contactless)	DF1B	1	'C0'	?
Counter 1 CVR Dependency Data (Contact)	DF2C	3	'000000'	?
Counter 1 CVR Dependency Data (Contactless)	DF2D	3	'000000'	?
Counter 1 Lower Limit	9F14	1	Determined by issuer	?
Counter 1 Upper Limit	9F23	1	Determined by issuer	?
Counter 2 Control (Contact)	DF1D	1	'00'	?
Counter 2 Control (Contactless)	DF1E	1	'00'	?
Counter 2 CVR Dependency Data (Contact)	DF2E	3	'000000'	?
Counter 2 CVR Dependency Data (Contactless)	DF2F	3	'000000'	?
Counter 2 Lower Limit	DF1F	1	'00'	?
Counter 2 Upper Limit	DF21	1	'00'	?
CRM Country Code	C8	2	'0620'	?

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Cryptogram Version Number V2.x	-	1	'10'	?
CVR Issuer Discretionary Data (Contact)	DF3C	1	'00'	?
CVR Issuer Discretionary Data (Contactless)	DF3D	1	'00'	?
Default ARPC Response Code	D6	2	'0000'	?
ICC Dynamic Number Master Key (Contact)	-	16	Data preparation	?
ICC Dynamic Number Master Key (Contactless)	-	16	Data preparation	?
ICC PIN Encipherment Private Key	-	var.	"	?
ICC Private Key	-	var.	Data preparation	?
Interface Enabling Switch	DF30	1	'03'	?
Interface Identifier (Contact)	-	1	'00'	?
Interface Identifier (Contactless)	-	1	'01'	?
IVCVC3(Track1) (Contact)	DF38	2	'0000'	?
IVCVC3(Track1) (Contactless)	DC	2	'0000'	?
IVCVC3(Track2) (Contact)	DF39	2	'0000'	?
IVCVC3(Track2) (Contactless)	DD	2	'0000'	?
KDCVC3 (Contact)	-	16	'00000000000000000000000000000000'	?
KDCVC3 (Contactless)	-	16	'00000000000000000000000000000000'	?
Key Derivation Index (Contact)	-	1	Determined by issuer	?
Key Derivation Index (Contactless)	-	1	Determined by issuer	?
Last Online Transaction Date	-	2	'0000'	?
Length Of ICC PIN Encipherment Public Key Modulus	-	1	'00'	?
Length Of ICC Public Key Modulus	-	1	Determined by issuer	?
Log Data Table	DE	9	'0000000000000000'	?
Log Format	9F4F	26	'9F27019F02065F2A029A039F360 <input checked="" type="radio"/> Present 019F21039F7C14' <input type="radio"/> Not present	?
MTA Currency Code	DF24	2	'0999'	?
MTA CVM (Contact)	DF22	6	'000000000000'	?
MTA CVM (Contactless)	DF23	6	'000000000000'	?

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MTA NoCVM (Contact)	DF25	6	'000000000000'	?
MTA NoCVM (Contactless)	DF26	6	'000000000000'	?
Number Of Days Offline Limit	DF27	2	'0000'	?
PIN Decipherments Error Counter Limit	DF36	2	'01F4'	?
PIN Try Counter	9F17	1	'03'	?
PIN Try Limit	C6	1	'03'	?
Previous Transaction History	—	1	'08'	?
Read Record Filter (Contact)	DF3F	var.	'00'	?
				Expand
Read Record Filter (Contactless)	DF40	var.	'18020200'	?
				Expand
Reference PIN	—	8	Data preparation	?
SMC Master Key (Contact)	—	16	Data preparation	?
SMC Master Key (Contactless)	—	16	Data preparation	?
SMI Master Key (Contact)	—	16	Data preparation	?
SMI Master Key (Contactless)	—	16	Data preparation	?
SMI Session Key Counter Limit (Contact)	DF32	2	'0400'	?
SMI Session Key Counter Limit (Contactless)	DF33	2	'0400'	?

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